CONSTRUCTION NEWS

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RAILWAYS.

(**Denotes that this work is advertised in Engineering News.*)

Massachusetts. — Boston & Maine R. R.—Permission for the expenditure of $1,300,000 for new equipment and $850,000 for land at Lynn, in connection with the abolition of grade crossings, has been sought from the railroad commissioners.

New York.—Buffalo, Rochester & Eastern R. R. Co.—This company has asked the Public Service Commission to certify the papers in the case, preparatory to taking the matter to the Supreme Court. The application has twice been refused. See item, Aug. 17.

Alabama.—Atlantic Coast Line R. R. —This company will extend its line from Pittsview to Eufaula, and from Eufaula to Dothan, connecting with St. Andrews Bay. E. B. Pleasants, Wilmington, N. C., is Ch. Engr.

Michigan.—Detroit, Bay City & Western R. R.—The State Railroad Commission has approved of the map for the extension of the railroad from Cairo to Wilmot, where the road proposes to establish connection with the Pontiac, Oxford & Northern. W. N. Boyd, Bay City, Mich., is Ch. Engr.

Wisconsin. — Wisconsin Northern R. R.—This company is asking Antigo County for a right-of-way to extend the line from Phlox to Antigo. C. H. Hartley, of Oshkosh, is Gen. Mgr.

Missouri.—A franchise has been received by the Kansas City, Clay County & St. Joseph Ry. Co. for a right-of-way through Dearborn.

✚Texas.—Gulf, Colorado & Santa Fe Ry.—A contract, involving about $100,000, has been awarded to HARVEY STIVER, Kansas City, Mo., for the Galveston yard improvements.

Houston & Texas Central R. R.—This company contemplates a cut-off from Giddings to Stone City. It will connect at Giddings with the San Antonio & Aransas Pass and at Stone City with the Dallas-Houston line of the Houston & Texas Central. I. A. Cottingham is Engr. of the M. of W.

Quanah, Acme & Pacific R. R.—The Texas Railroad Commission has been notified that this company has completed arrangements for the necessary finances to build the extension westward, which has been projected for some time. It is to go to El Paso, with Roswell, N. M., as the ultimate destination. At present, the line is in operation from Quanah to Paducah, 43 miles. The distance from Quanah to Roswell is 350 miles. A. F. Sommer, Quanah, Tex., is Res. Engr. Noted on June 22.

Kansas City, Mexico & Orient Ry.—This company is projecting a line to run from Fort Stockton to Pecos City, and will place engineers in the field in a short time. The distance between the two places is about 65 miles. W. W. Colpetts, Kansas City, Mo., is Ch. Engr.

San Antonio, Rockport & Mexico R. R.—Arrangements for financing the construction of this road have been made in London, England. It is stipulated that bonuses of $8,000 a mile shall be donated by landowners and people who are to be benefited by its accomplishment. The main line will run south from San Antonio to Brownsville. A branch line will be constructed from a point about 125 miles south of San Antonio to Rockport, on the Gulf coast. All told, there will be about 350 miles of track. Noted on Sept. 21.

✚The El Paso & Southwestern Ry.—A contract has been awarded to LEE MOOR, El Paso, Tex., for the reconstruction of its track between Lewis Springs and Fairbank, Arizona, for $30,000.

✚New Mexico.—San Diego, El Paso & St. Louis Ry.—We are advised that the McCARTHY ENGINEERING CORPORATION, Houston, Tex., has been awarded the contract for the complete construction of 25 miles of railroad between Artesia and Hope, N. M. The contractor is in the market for 60,000 ties, 6 × 8 ins. x 8 ft., and 625 telephone poles, 24 ft. long, with 4-in. top.

✚California. — Atchison, Topeka & Santa Fe Ry.—The contract for grading ten miles of roadbed between Needles and Goffs has been awarded to GEORGE WEST, San Bernardino.

✚Ontario.—Canadian Pacific Ry.—The contract for the construction of all the stations, freight sheds, water tanks and other buildings on the new Canadian Pacific Railway line from Orillia to Peterboro, a distance of over 100 miles, has been awarded to G. T. MARTIN, Smith's Falls, Ont.

Manitoba. — Hudson Bay Ry. — See item under Miscellaneous Contracts—Steel Rails, etc., Ottawa, Ont.

New Brunswick.—Intercolonial Ry.—Bids will be received until 4 p. m., Oct. 12, for the construction of a branch line of railway from a point on the Intercolonial Railway, near Alba, to the town of Baddeck, a distance of 22.7 miles. Plans, specifications and form of contract to be entered into may be seen, and full information obtained at the office of the Chief Engineer of the Department of Railways and Canals, Ottawa, and at the office of the Chief Engineer of the Intercolonial Ry., Moncton, N. B. L. K. Jones is Secy.

Intercolonial Ry.—Bids for the Moncton yard and cut-off will be received until 4 p. m., Oct. 2. Plans, profiles, specifications and form of contract to be entered into can be seen at the office of the Chief Engineer of the Department of Railways and Canals, Ottawa, and at the office of the Chief Engineer of the Intercolonial Ry., Moncton. L. K. Jones is Secy.

Mexico.—The construction of several new and independent lines of railway will soon be started in Mexico if applications to the federal government for concessions that are now pending are granted. President Francisco de la Barra made mention of the fact in a recent message to Congress. He said: "Three new railway concessions of unquestioned importance are at present under consideration. One of them provides for the construction of a railroad from Balsas station, on the Mexcala River, to the ports of Zihuatanejo and Acapulco, on the Pacific, in the State of Guerrero. Another is for the construction of a railroad between Vera Cruz and Tampico via Tuxpam, with a branch to Beristain; also for the construction of an extension of the proposed Vera Cruz-Tampico line from the latter place to Matamoros, on the Rio Grande border; and, finally, an application for the renewal of the concession for a railroad from Santa-Lucrecia to Campeche which will connect the United Railways of Yucatan with those of the rest of the republic. The efforts of the federal department of communications are directed to obtaining the best possible terms for the country. In which it is aided by the fact that there are various competing interests desirous of undertaking the construction of the lines in question."

ELECTRIC RAILWAYS.

(*✚Denotes a contract awarded.*)

Medford, Mass.—The Boston Elevated Ry. Co. has asked the City Council for a franchise to relay its tracks on Main St. from Medford Square to the Somerville city line at Winter Hall.

Revere, Mass.—The Boston & Eastern Ry. Co. has applied for a franchise in Revere and Peabody. This line will connect Boston, Beverly, Danvers, Lynn, Chelsea, Revere, Salem and Swampscott.

Webster, Mass.—A franchise has been asked by the Worcester Consolidated St. Ry. Co., to relocate its Cemetery St. line and extend it to the Oxford Line. H. C. Page, Worcester, is Gen. Mgr.

Mystic, Conn.—The Groton & Stonington Street R. R. Co., plans to extend its line from Mystic to Old Mystic. Thomas Hamilton, Groton, Conn., is Pres.

Norwalk, Conn.—A charter has been applied for by the Norwalk & New Canaan St. Ry Co., to build a railway between Norwalk and New Canaan.

***New York, N. Y.**—Vincennes, Washington & Eastern Traction Co. Bids will be received by the Brindley Co., 17 Battery Pl., New York City, until Oct. 15, for the following work on the above interurban trolley road in Southern Indiana; length, 36 miles; about 250,000 yards of excavation (no rock or hard pan): Laying of 6 in. × 8 in. × 8 ft. ties, two foot centers, and 60-lb. rails; gravel ballasting from 6 in. below tie (gravel obtained locally); about 400 tons of struuctural steel for bridges; concrete piers and abutments for the above bridges.

New York, N. Y.—The Union Railway Co., has applied for franchises for the construction of two extensions. One is for a railway on Broadway to make a link between the Kingsbridge R. R., at 225th St. and the Yonkers R. R. at 230th St. The other for a line over the New Madison Ave. Bridge from 138th St. to 135th St.

Hagerstown, Md.—The Hagerstown & Clearspring Electric Ry. Co. has applied to the County Commissioners for a right of way over the country road, from Hagerstown to the Pennsylvania State Line. The company also proposes to construct a railway from Hagerstown to Maugansville, Middleburg, Greencastle and Mercersburg.

Atlanta, Ga.—The Georgia Ry. & Power Co., has applied for a charter to build a railroad and power plants. The company proposes to build an interurban line out from Stone Mountain in De Kalb County to connect a number of towns.

Macon, Ga.—A franchise has been asked by the Macon Ry. & Light Co. to build a double track line on Hardeman Ave. J. T. Nyham, Macon, is Gen. Mgr.

Savannah, Ga.—A franchise has been asked by the Savannah Electric Co. to extend its tracks in Savannah. F. M. Yawger, 117 Broughton St. West, is Ch. Engr.

Hattiesburg, Miss.—Extensions and improvements are contemplated by Doherty & Co., of New York, N. Y., having recently taken over the Hattiesburg Traction Co. About $25,000 will be expended on the electric system, for the installation of new gas mains and other improvements and $50,000 for the street railway system, including the purchase of new cars, extensions to car lines, etc. A. B. Patterson is Mgr.

Indianapolis, Ind.—The Indianapolis, Crawfordsville & Western Traction Co., has arranged to close the gap of 45 miles between Crawfordsville and Danville. C. E. Morgan, Crawfordsville, is Gen. Mgr.

New Albany, Ind.—F. E. Seagrave of Toledo, Ohio, who is promoting a traction line from New Albany to French Lick reports that the capitalists, backing the project have instructed him to ask for bids and proceed with the work.

Richmond, Ind.—A charter has been applied for by the Richmond & Eastern Indiana Traction Co. to build a railway to connect Portland, Union City, Bethel, Cox's Mills, Richmond, Brookville and Harrison. Bids will be asked for, it is stated, as soon as surveys are completed.

Hastings, Mich.—A franchise has been granted to the Interurban Construction Co. giving them permission to construct a railway. F. L. Conntag, is Mgr.

Ottawa, Ill.—A charter has been applied for by the La Salle County Electric R. R. Co. to build a railway between Ottawa and Mendota, about 26 miles. G. H. Dodge, is Pres.

Peoria, Ill.—Plans are being prepared by the Quincy & Peoria Traction Co. for the construction of an interurban line from Peoria to Quincy.

Des Moines, Iowa.—The Creston, Winterset & Des Moines Ry. Co., recently incorporated proposes to build a line between Creston and Des Moines by way of Macksburg and Winterset. R. Brown, Creston, is Pres.

Tama, Iowa.—A franchise has been asked by the Tama & Toledo Electric Ry. Co. W. C. Walters, Toledo, Iowa, is Gen. Mgr.

Hastings, Minn. — A franchise has been received by the Interurban Construction Co. to connect St. Paul, Inver Grove, Hastings, Cannon Falls and Rochester. W. L. Sonntag, Hastings, is Gen. Mgr.

Kansas City, Neb.—The Wayne Construction Co. has been incorporated to build a railway from Kansas City to Excelsior Springs.

Fort Smith, Ark.—A franchise has ben asked by the Fort Smith Light & Traction Co. for an extension of its line. L. R. Robertson is Ch. Engr. Noted June 29.

✚Fort Worth, Tex.—The Stone & Webster Engineering Corporation, of Boston, Mass., has awarded the contract for grading the proposed 35-mile interurban railway that is to be constructed between Fort Worth and Waxahachie to DENISON & RAMSEY, Lubbock, Tex. The contractors expect to complete the grade by Jan. 1, and it is planned that the road shall be finished and in operation by June 1.

Salt Lake City, Utah.—A franchise has been received by the Ogden, Logan & Preston Ry. Co. to construct a railway from Ogden through the Cache Valley to Preston.

Eugene, Ore.—The Oregon Electric Ry. Co. has asked the City Council for a franchise to build a loop through the business section of Eugene. L. B. Wickersham is Ch. Engr.

McMinnville, Ore.—A franchise has been received by the Portland & West Coast R. R. & Navigation Co., Portland, for a line over E St. and part of St. Johns St.

Los Angeles, Cal.—The Park Commissioners have asked the Los Angeles Ry. Co. and Pacific Electric Co. to have surveys made for a railway in Elysian Park.

Martinez, Cal.—The Oakland, Martinez & Alkambra Ry. & Ferry Co. is being organized as a subsidiary company of the Oakland, Antioch & Eastern Ry. Co., Portland, td bulid an electric railway between Oakland and Martinez by way of Walnut Creek and the Alhambra Valley, a distance of 13 miles.

San Jose, Cal.—A franchise has been received by the Peninsular Ry. Co. to construct a single or double track line in Santa Clara County on Willow St., Delmar Ave. and Lincoln Ave. F. V. McPeake, 143 South Market St., this city, is Ch. Engr.

San Luis Obispo, Cal. — Arrangements are being made by Walter G. Lincoln for the necessary bonds for the construction of a railway in the city and county of San Luis Obispo. Noted June 22.

***Toronto, Ont.**—See item under Miscellaneous Contracts — Trolley Wire, Poles, Etc., Toronto, Ont.

✚Victoria, B. C.—A contract has been awarded to MOORE & PETHICK for 18 miles of road for the British Columbia Electric Railroad Co., along the Saanich Peninsula.

LIGHT AND POWER PLANTS.

(**Denotes that this work is advertised in Engineering News.*)

Boston, Mass.—Bids will be received until Oct. 18 by J. Edward Mullen, Supt. Supplies, Boston, for furnishing approximately 11,000 inverted gas mantle lamps, complete with single burner, to be used for street lighting, parks and alleys.

East Charlemont, Mass. — The construction of a dam 45 ft. high and 285 ft. long is contemplated by Chace & Harriman, Inc. The site of the proposed dam is at East Charlemont, on the Deerfield River. A tunnel 2,800 ft. long, to pass north of Shelbourne Falls in the town of Buckland is also planned for the purpose of conveying the waters of the river to a power house to be located in the vicinity of the old creamery at Shelburne Falls. Noted under Deerfield, Mass., on Aug. 31.

Hartford, Conn.—The Hartford Electric Light Co. has been granted permission to erect electric light poles on Asylum St., between Trumbull and Main Sts.

✚New Haven, Conn.—A contract has been awarded to the DAVID H. CLARK CO., this city, for the erection of an addition to Station A power-house on Grand Ave., owned by the Connecticut Co. The building will be of brick, one story, 60 × 60 ft., with gravel roof.

✚New York, N. Y.—A contract has been awarded by the Supervising Architect, Washington, D. C., to the VAN WAGONER CONSTRUCTION CO., 1133 Broadway, New York, N. Y., at $55,720, for the installation of a conduit and electric wiring system in the new postoffice building, New York.

New York, N. Y.—Bids will be received by the Superintendent of School Buildings, Department of Education, Park Ave. and 59th St., until 3 p.m., Oct. 2, for installing electric equipment in additions to and alterations in Boys' High School, on the westerly side of Marcy Ave., between Madison St. and Putnam Ave., Borough of Brooklyn. Plans and specifications may be obtained at the office of the Superintendent, and at branch office, 131 Livingston St., Borough of Brooklyn. C. B. J. Snyder is Supt. of School Buildings.

New York, N. Y.—Bids will be received at the Department of Health, 55th St. and Sixth Ave., until 10 a. m., Oct. 3, to furnish and install electric and gas lighting fixtures, temporary supply feeders, etc., together with all necessary alterations and other work incidental thereto, for two concrete pavilions on the grounds of Riverside Hospital, at North Brother Island, Borough of the Bronx, City of New York. Plans and further information may be obtained at the office of the Chief Clerk of the Department of Health. Ernst J. Lederle, Ph.D., is Pres.

New York, N. Y.—Bids will be received at the Department of Public Charities, Foot of East 26th St., until 2.30 p. m., Oct. 5, for the erection of an addition to the electric lighting system of the Strecker Memorial Laboratory at the City Hospital, Blackwells Island. Plans, specifications and further information may be obtained at the office of the Architect of the Department. Michael J. Drummond is Comr.

Thousand Island Park, N. Y.—The Trustees of Thousand Island Park Association contemplate the erection of a new fireproof pumping and electric light station. A 150-HP. engine and a 100-HP. boiler will be installed. J. P. Lewis is Pres. of the association.

Overbrook (Verona postoffice), **N. J.** —Bids will be received by the Building Committee of the Essex County Board of Freeholders, at the Essex County Court House, Newark, N. J., until 3 p. m., Oct. 6, for highway lights on Grove Ave., Overbrook, N. J. Specifications may be seen at the office of Runyon & Carey, Engrs., 122 Market St., Newark, N. J. Louis E. Voorhees is Chn. of the Public Buildings Committee.

+Philadelphia, Pa.—A contract for electric freight elevators for the Vine st. pier has been awarded to the SUPLEE ELEVATOR CO., 3207 Spring Garden St., at $14,827.

+Philadelphia, Pa.—A contract has been awarded for the construction of the power house by the Philadelphia & Reading Ry. Co., St. Claire, Pa., to IRVIN & LEIGHTON, Philadelphia, Pa. L. F. SHOEMAKER & CO., Philadelphia, Pa., have been awarded a contract to build an 85-ft. turntable at the new round-house at St. Clair, which will be operated by electricity.

Washington, D. C.—Bids will be received until Oct. 14 at the office of the Supervising Architect, Treasury Department, Washington, D. C., for furnishing and installing lighting fixtures in the United States buildings at Brazil, Ind.; Fairbury, Neb.; Hillsdale, Mich.; Mount Clemens, Mich.; Murphysboro, Ill.; Rock Island, Ill.; Wabash, Ind.; Watertown, Wis.; Willmar, Minn., and Ottumwa, Iowa. Plans and specifications may be obtained from James Knox Taylor, Supervis. Arch.

Washington, D. C.—Bids will be received until Oct. 15 for furnishing and installing lighting fixtures in the U. S. buildings at Brazil, Ind.; Fairbury, Neb.; Hillsdale, Mich.; Mount Clemens, Mich.; Murphysboro, Ill.; Rock Island, Ill.; Wabash, Ind.; Watertown, Wis.; Wilmar, Minn., and Ottumwa, Iowa.

+Norfolk, Va.—A contract has been awarded by the Bureau of Yards and Docks, Navy Department, Washington, D. C., to the WESTINGHOUSE ELECTRIC & MFG. CO., for furnishing and installing complete electric equipment consisting of motors and control apparatus for two electrically operated pumps, for Dry Dock No. 2, at the United States Navy Yard, Norfolk, Va. The contract for pumps was awarded to R. D. WOOD CO., Philadelphia, Pa.

Jacksonville, Fla.—Bids will be received by W. M. Bostwick, Jr., Chn. Bd. Trus. of the Water Works and Improvement Bonds, for furnishing and delivering, f. o. b. new power station, Jacksonville, five 10,000-gal. cylindrical steel oil tanks, a separating oil filter and storage tank, an oil weighing machine, a 10 × 10 × 10-in. (or equivalent capacity) direct-acting steam-driven air compressor and air tank, and a 1,000 cu. ft. per minute motor-driven ventilating fan. The Scofield Engineering Co., Philadelphia, Pa., has charge of the work.

Columbus, Miss.—The installation of an electric plant, to be operated by gasoline power, of sufficient output to provide for 400 incandescent lamps of 16 candle-power and three small passenger elevators is contemplated by Louis Shull, The Subway, Columbus, for which estimates are desired.

Adams, Tenn.—A company, recently formed, has purchased a site in West Adams from M. L. Robertson, it is stated, and will build an electric light plant in connection with its proposed mill. H. W. Tyson, Glenraven, Tenn.; D. F. White and J. D. Stoltz, of Adams, are the incorporators.

+Johnson City, Tenn.—A contract has been awarded to the JOHNSON CITY ELECTRIC CO. to furnish the lighting fixtures for the East Tennessee State Normal School.

+Lexington, Ky.—A contract has been awarded by the Kentucky Traction & Terminal Co. for the construction of its power-house to the COMBS LUMBER CO., Lexington, and for the structural ironwork to the PITTSBURGH BRIDGE & IRON CO.

Beaumont, Ohio.—J. J. Henry proposes to build a central electric power plant of 25,000HP. capacity to supply current in the Hocking Valley.

Bowling Green, Ohio.—The Lake Erie, Bowling Green & Napoleon Ry. Co. has been authorized to install a hot water heating plant and an electric light plant. The cost is estimated at $50,000. B. C. Harding and A. E. Royce are Receivers.

Cleveland, Ohio.—A permit has been granted to the Pennsylvania R. R. Co. to erect a power plant at the foot of West 50th St. The cost is estimated at $75,000.

Anderson, Ind.—The Board of Public Works is in the market for a turbine engine and electric generator to be installed in the city light and power plant.

Montezuma, Ind.—The Town Board is preparing to ask for bids for the erection and installation of an electric light plant.

+Detroit, Mich.—The heating and ventilating contract for the George School has been awarded to JACOB ZERGA at $9,642. The other bidders were O'Connor Bros., $10,646; and A. W. Schultz & Co., $10,645. The contract for the installation of a heating and ventilating system in the Fox Creek School was also awarded to JACOB ZERGA.

+Mendota, Wis.—A contract to supply piping for the new power house at the State Hospital has been awarded to the DOWNEY HEATING & SUPPLY CO., Milwaukee, at $8,774. The WORTHINGTON STEAM PUMP CO., Chicago, Ill., was awarded the contract to furnish five pumps, at $687.

Milwaukee, Wis.—Harry E. Briggs, Comr. Pub. Wks., is receiving bids for machinery in the refuse incinerator power house, consisting of steam turbine, generator, exciter, motor generator set and transformers; also condenser and condensing apparatus. Bids for constructing the power house are also being called for. Estimated cost is $80,000.

Redfield, Iowa.—See item under Water Supply—Irrigation.

Des Moines, Iowa.—Contracts have been awarded by the Des Moines City Ry. Co. to the J. W. TURNER CONSTRUCTION CO. for the construction of an addition to its power-house, to be 30 × 60 ft., and a concrete coal bin, capacity 2,500 tons, and for the construction of a new water intake system from the river, at a total cost of $43,000.

+Fort Dodge, Iowa.—A contract for the construction of the steel and concrete dam for the Northern Iowa Power Co. has been awarded to BUTLER BROS., 1600 New York Life Bldg., St. Paul, Minn. Work may not be started until late in the fall or early in the spring of 1912. The cost is estimated at $100,000.

+Minneapolis, Minn.—Contracts for the installation of an electric light plant at the city crematory have been awarded as follows: the NORTHWEST ELECTRIC CO., Minneapolis, for station equipment, at $5,720; R. B. WHITACRE & CO., St. Paul, Minn., for pole lines and 150 magnetic arc lamps, at $13,979 and $4,890, respectively; and the ELECTRIC MACHINERY CO., Minneapolis, for generator, etc., at $8,279. and steam engine equipment at $8,781.

Hill City, Kan.—See item under Water-Supply—Irrigation.

Syracuse, Kan.—See item under Water-Supply—Irrigation.

Curtis, Neb.—The construction of an electric light plant is proposed, to cost about $7,500. F. E. Dillman is City Clk.

+Parma, Mo.—A contract has been awarded to the NATIONAL MOTOR & SUPPLY CO., Cairo, Mo., for the installation of an electric light plant. The equipment will include one 35-HP. Olds gasoline engine and one 25-KW. direct-current generator and accessories, by Malcomb & Hull, Parama. A 25-year franchise and a contract for street lighting for a period of five years have been granted.

Cameron, Tex.—The City Council has granted Hamilton Bros., of Chicago, a franchise to install an electric light plant and water-works system for this city.

Fort Stockton, Tex.—The Fort Stockton Light & Ice Co. has been organized for the purpose of installing an electric light plant and ice factory. The incorporators are Charles S. Schraff, W. F. Zarback and James Rooney.

Houston Heights, Tex.—The Houston Gas Co. has made application for a franchise to extend its gas distributing system.

Collinsville, Okla.—A vote to issue bonds for $45,000 has been carried for the construction of a municipal light and power plant.

Grove, Okla.—See item under Water Supply—Irrigation.

Muldrow, Okla.—See item under Water Supply—Irrigation.

Custer, Okla.—See item under Water Supply—Irrigation.

Tulsa, Okla.—Bids will be received by the Board of County Commissioners until Oct. 3 for lighting fixtures for new court house. Winkler & MacDonald, Tulsa, are the Archs., and R. E. Curran is County Clk.

Wagoner, Okla.—Plans are being prepared by the Benham Engineering Co., Oklahoma City, for the construction of a new electric light plant; also for extensions to the water-works. A bond issue of $40,000 has been made.

Phoenix, Ariz.—Bids will be received until Oct. 10 for the erection of the South Side power plant station for the Salt River Valley Water Users' Association. The plant will be built of reinforced concrete; dimensions, 40 × 60 ft., with 3,000 HP. capacity. C. A. Van der Veer is Secy.

+Riverdale (Ogden post-office), **Utah.**—Davis & Weber Counties Co., 316 First National Bank Bldg., Ogden, has awarded contracts for the construction of a hydroelectric power plant to the LYNCH-CANNON ENGINEERING CO., Salt Lake City. The estimated cost is $215,000.

Salt Lake City, Utah.—Bids will be received by the County Clerk until Oct. 2 for constructing a power-house at Twelfth and State Sts. J. A. Headlund, 523 Dooly Bldg., is the Arch.

Pasadena, Cal.—The Hotel Maryland will begin at once the construction of a central power plant, to furnish light, heat and power. Two 125-HP. steam boilers will be installed. No contracts have been awarded yet. D. M. Linnard is Mgr.

Portersville, Cal.—The Central Counties Gas Co. has been organized and will construct high-pressure mains to supply gas to Terra Bella, Portersville and seven adjacent towns. F. H. Hess, Portersville, is Gen. Mgr.

Long Beach, Cal.—The Long Beach Consolidated Gas Co. contemplates the construction of a new gas plant. The estimated cost is $250,000.

Prince Albert, Sask.—C. H. & P. H. Mitchell, Traders' Bank Bldg., Toronto, Ont., are preparing plans for a power plant to be built on Saskatchewan River at La Colle Falls. The cost is estimated at $800,000.

BRIDGES.

Holyoke, Mass.—W. J. Howes, Arch., has been commissioned to prepare plans for a new bridge to be erected over the Connecticut River at the dam extending from High St. to South Hadley Falls.

Quincy, Mass.—See item under Miscellaneous Contracts—Elimination of Grade Crossings, Quincy, Mass.

Springfield, Mass.—The Board of Supervisors have granted permission to the Boston & Albany R. R. Co. to build a steel and concrete bridge over Chestnut St., east of the station.

Norwalk, Conn.—The city is planning the erection of a bridge across the Norwalk River.

Butler, Pa.—Bids will be received by the County Commissioners until Oct. 3 for constructing a bridge on the Perrysville plank road in Cranberry Township. W. B. Scott is Clk., Comrs.

Charleroi, Pa.—The city is considering the construction of a concrete viaduct 500 ft. long, with a roadway from 30 to 50 ft. wide. There will be a main arch 200 ft. in length curving up to the roadway from piers of solid masonry set on a tested foundation. The heighth of the main arch will be approximately 90 ft. in the center to the curve.

Clearfield, Pa.—Bids will be received by the Commissioners of Clearfield County until noon, Oct. 7, for repairing the Five Points Bridge over Chest Creek in Chest Township.

Monessen, Pa.—Tests are being made by Fred J. Biele, an engineer of Chester & Fleming, Pittsburgh, for foundations for a viaduct to be constructed over Third St., connecting Reed and Rostraver Sts. The structure will be of concrete, 510 ft. long, with a roadway between 10 and 50 ft. wide. The cost is estimated at $50,000.

Lancaster, Pa.—Bids will be received by the Water Committee at the office of J. H. Rathfon, City Controller, until Oct. 17, for constructing a 3-span plate girder bridge.

McKees Rocks, Pa.—Bids will be received by the Borough Secretary until Oct. 2 for a 45-ft. steel truss span foot bridge and steps over the tracks of the Pittsburgh, Chartiers & Youghiogheny Ry., at the end of Guthrie St. Geo. H. McGuinness is Boro. Engr.

Pittsburgh, Pa.—Bids will be received by Jos. G. Armstrong Dir. Pub. Wks., until Oct. 3, for furnishing steel for the two steel spans for the Northside Point Bridge and repairing the stone masonry and railing of the south approach to South 22d St. Bridge and Pine St. Bridge.

Sussex, Va.—Bids will be received by the Clerk of the Circuit Court until noon, Oct. 9, for constructing five steel and concrete bridges, ranging in length from 34 to 95 ft., and for steel stringers for Bollings Bridge, near Stony Creek. Plans are on file with the Childrey, Sunday Co., Richmond. P. St. J. Wilson is State Highway Comr.

Philippi, W. Va.—Bids will be received by the Commissioners of Barbour County until 11 a. m., Oct. 2, for the construction of a plate girder bridge across Gnatty Creek.

Augusta, Ga.—Bids will probably soon be asked for widening the bridge over the first level of the 15th St. canal by building a span parallel to the present structure. The bridge is 150 ft. long, with three spans. N. Wingfield is City Engr.

+Jacksonville, Fla.—Press reports state that a contract for constructing a bridge over the Hillsborough River at Lafayette St., has been awarded to the OWEGO BRIDGE CO., Owego, N. Y., at $205,000. The structure will be of the bascule or lift type, 80 ft. wide, with a vertical lift span that will allow practically the full width of the channel for the passage of vessels in the river. It will have two sidewalks for passengers, one at either extreme, two street car lines down the center and a roadway for vehicles on either side of the car tracks.

Jacksonville, Fla.—Bids will be received by Gail L. Barnard, County Engr., until 10 a. m., Oct. 4, for furnishing material and constructing Duval County's half of the bridge over Nassau River on Duval Road.

Gulfport, Miss.—Bids will be received by the Supervisors of Harrison County until Oct. 2 for the construction of Lightwood Knot bridge across Tuxichana River and Rouse bridge across Saucier Creek on the road from McHenry to Airey. Plans and specifications are on file with F. S. Hewes, Clk. Bd.

Lake Charles, La.—T. H. Mandell, City Engr., has completed the preliminary survey for the projected wagon and foot bridge, across Calcasieu River, to connect Lake Charles with the west side. The cost estimated at from $50,000 to $100,000.

Athens, Tenn.—Bonds for $35,000 have been sold for the construction of a bridge over Hiawassee River, between McMinn and Bradley counties.

Cincinnati, Ohio.—Bids will be received by the Board of County Commissioners until Oct. 13 for constructing bridges over Bull Run, Forfeit Run and Eagle Creek on Harrison Pike, Colerain Township, as per Specification No. 265. F. Dreihs is Clk. Comrs.

Cleveland, Ohio.—See item under Miscellaneous Contracts—Jetties, Wall, Cleveland, Ohio.

Massillon, Ohio.—The County Commissioners have decided to accept the plans of the Straus-Bascule Bridge Co., Chicago, for the lift bridge to be erected in Main St. The structure is estimated to cost $11,000.

Decatur, Ind.—Bids will be asked by the Commissioners of Adams County for the construction of [illegible] concrete bridges. H. S. Michaud is County Audr.

Fowler, Ind.—Bids will be received by the Commissioners of Benton County until 1 p. m., Oct. 3, for the construction of ten bridges and [illegible] culverts. L. E. Shipman is County Audr.

Rockville, Ind.—The County Council has appropriated $6,500 for the construction of a bridge at Thorp Ford near Rosedale. Bids will soon be asked by the Commissioners.

+Valley City, Ind.—Press reports state that the Wabash R. R. has awarded a contract to the MILWAUKEE BRIDGE CO., Milwaukee, at approximately $35,000 for constructing a steel bridge across the Illinois River at Valley City.

Liberty, Ind.—Bids will be received by the Board of Commissioners of Union County until 1 p. m., Oct. 2, for the construction of a concrete bridge over Templeton's Creek. Clinton Gardner is County Audr.

Newcastle, Ind.—The Henry County Council has made appropriations for six concrete and steel bridges, averaging from 20 to 30-ft. spans, and bids will soon be asked. W. [illegible] Risk is County Audr., and J. W. Mueller, County Surv.

Waukegan, Ill.—Plans are being prepared by Westcott & Ronneberg, 189 W. Madison St., Chicago, for a concrete viaduct 400 ft. long on Genesee St. Estimated cost, $60,000.

Lakemills, Wis.—Bids will be received by Victor S. Ravenhill, County Clerk, until 7.30 p. m., Oct. 6, for the construction of a reinforced-concrete bridge across Rock Creek, on Grove St. Plans and specifications are on file at the office of the City Clerk. C. A. Harison is City Engr.

Ida Grove, Iowa.—The Board of Supervisors plan the erection of a concrete arch bridge across the Maple River at Ida Grove, to take the place of the bridge at the west end of town which is 400 ft. long. The site of the bridge will be changed so that the approaches may be shortened.

Vermilion, Minn.—Bids will be received by P. A. Hoffman, County Audr., Hastings, until Oct. 6, for constructing a 55-ft. low truss bridge across the Vermilion River in Section 31, Town of Vermilion. The bridge is to be placed on two concrete piers with steel piling.

+Kansas City, Kan.—We are officially advised that the contract for constructing a bridge over Kansas City at James St. was awarded on Sept. 14 to the MT. VERNON BRIDGE CO., Mt. Vernon, Ohio, at $143,871. The other bids were: Canton Bridge Co., Canton, Ohio, $169,500; Kansas City Bridge Co., $166,596; Missouri Valley Bridge Co., Leavenworth, Kan., $161,200. The County Surveyor's estimate was $174,478. Noted Aug. 24.

Columbia, Mo.—Bids will soon be received by P. Quinn, County Engr., for the construction of 27 bridges.

Kansas City, Mo.—Press reports state that John V. Hanna, Terminal Bldg., has completed plans for a concrete viaduct, on Flora Ave., for the Kansas City Terminal Co.

Ashdown, Ark.—Bids will be received by N. A. George, County Judge, until 2 p. m., Oct. ,9 for the construction of a steel bridge across Walnut Bayou.

Reno, Nev.—Bids will be received by the Clerk of the Board of County Commissioners until noon, Oct. 3, for the construction of a steel bridge across the Truckee River, according to plans and specifications on file with the Clerk.

Pasadena, Cal.—Bonds for $200,000 have been issued for the construction of the bridge to span the Arroyo Seco. Waddell & Harrington, Kansas City, Mo., are Consult. Engrs.

Santa Barbara, Cal.—Bids will be received by the County Supervisors until Oct. 2 for the construction of a bridge across Foxen Canyon.

+Ione, Cal.—Bids for the construction of a steel bridge over the Mokelumne River have been received by the Board of Supervisors as follows: Healy-Tibbetts Construction Co., $14,490; Hyde-Harjes Co., $12,240; Cotton Bros. Co., $11,804; Jenkins & Wells, $11,329; Clarence W. Swain, $10,933, CLINTON BRIDGE & IRON WORKS, $10,530 (awarded contract).

Los Angeles, Cal.—The City Council has authorized the Board of Public Works to advertise for bids for the construction of a concrete arch bridge across Arroyo Seco at Ave. 20. Estimated cost, $51,250. Plans for the structure have been prepared by Homer Hamlin, City Engr.

Oroville, Cal.—Bids will be received by C. F. Belding, Clk. Bd. Supervs., until 2.30 p. m., Oct. 6, for constructing a bridge across Hobson Slough.

+A contract has been awarded by the Board of Supervisors to the ROSS CONSTRUCTION CO., at $47,500, for erecting a bridge over Feather River near Gridley.

+Visalia, Cal.—Bids for constructing a steel bridge over the Tulane River have been received by the Board of

Supervisors, as follows: Clinton Bridge & Iron Works, San Francisco, $9,982; Ross Construction Co., Sacramento, $10,9[illegible]; Berkeley Steel Co., San Francisco, $9,[illegible]86; J. Fred Kessing, Porterville, $1[illegible],150; TROWHITT & SHIELDS, Hanford, $9,275 (awarded contract); Oscar Parlier, Tulare, $11,454; C. W. Corbaley, Los Angeles, $12,176.

BUILDINGS.

(*Denotes that this work is advertised in Engineering News.)

✚Adams, Mass.—P. J. MAHONEY, of Westfield, Mass., has been awarded the contract for a school on Summer St. for the St. Sanislaus Church. The building will be three stories high, 60 x 130 ft., of red sandstruck brick laid in Flemish bond, with gray canyon stone trim. There will be 12 class rooms, heated by steam and equipped with electric fire alarm and telephone systems. The cost will be about $50,000.

✚Cambridge, Mass.—The contract for the store and factory building on Massachusetts Ave., to be built for the Cambridge Factory Trust Co., 60 State St., Boston, has been awarded to the CONCRETE ENGINEERING CO., 101 Tremont St., Boston. To be of erinforced concrete, three stories, 180 × 100 ft., to cost $50,000. Monks & Johnson, 7 Water St., Boston, are the Engrs.

Beverly, Mass.—Plans are being drawn for 50 two and three-apartment houses to be erected on Colon St. for Joseph L. Simon, 221 Essex St., Salem. George H. Fanning, Salem, is the Arch.

✚Boston, Mass.—The contract for the office building for the First National Bank on Federal St. has been awarded to L. P. SOULE & SONS CO., 166 Devonshire St; to be of stone and brick, ten stories, 96 × 40 ft., to cost $100,000. R. Clipston Sturgis, 120 Boylston St., is the Arch. J. R. Worcester, 79 Milk St., is the Engr. French & Hubbard, Albany Bldg., are the steam and electrical engineers.

Bids will soon be asked for a school house to be built on Magnolia St., Roxbury, for the city, to be of brick, and to cost $75,000. Mulcahey & McLaughlin, 683 Atlantic Ave., are the Archs.

A four-story stone and brick building is to be erected at 2139 Washington St., Roxbury, to be completed by the first of next year. The Associated Trust, 141 Milk St., is the owner.

Boston, Mass.—The New England Historic Genealogical Society is planning to build a fireproof building on Ashburton Place, Beacon Hill. The building committee of the society is now considering plans for the structure.

Easthampton, Mass.—Plans are being prepared for a 50-room hotel adjoining the Majestic Theatre, for Henry Walz. The building will cost about $40,000.

✚Great Barrington, Mass. — E. H. SHAW has been awarded the contract for the mason work and W. H. GROSS will furnish the marble for an Italian garden which William Hall Walker will build at his estate here.

Northampton, Mass. — George P. B. Alderman & Bro., of Holyoke, Mass., are completing plans for the business block to be erected on Pleasant St., for E. G. Southwick. The building will be of brick, five stories high, 112 x 80 ft., with pressed brick front and limestone and brownstone trim, and will contain an elevator.

✚Springfield, Mass. — The following bids have been received for the engine house to be erected for the City of Springfield at North and Patton Sts.: General contract, Daniel C. Shea, $47,500; L. S. Woods, $50,375; D. W. Mellen, $51,000; J. G. Roy, $51,924; O. C. Rivest, $52,964; A. E. Stevens Co., $52,975; E. J. Pinney, $53,589; Michael Maloney, $53,936; Charles B. Maguire Co., Providence, R. I.; $56,487; W. A. Newton & Co., $58,686. Electrical work, Richard A. Turner & Co., $2,563; Bowman & Gregg, $2,628; P. C. Fitzpatrick, $2,650. Plumbing, J. J. Cotter Co., $3,487; Wyckoff & Lloyd Co., $3,890; T. J. Ryan, $4,005; George Smith & Co., $4,100; A. J. Beaumier & Co., $4,150. Heating, J. J. Cotter Co., $2,022; Wyckoff & Lloyd Co., $2,136; George R. Esterbrook, $2,160; George H. McLean Co., $2,375. No award has been made yet. B. Hammett Seabury is the Arch. Noted August 31.

Waltham, Mass. — Bids will be received by the Board of Trustees, Massachusetts School for Feeble Minded, Charles E. Ware, Secy., until Sept. 30, for erecting a brick addition to the Nurses' Home at the school at Waltham. Separate bids will be received for plumbing and steam heating. James Calderwood, 6 Beacon St., Boston, is Arch.

Fitchburg, Mass.—A store and office block on Fairmount St. is to be built by N. M. Des Chenes. To be 98 × 48 ft., three stories, and of stone construction. D. H. Woodbury, Boston, is the Arch.

✚Lawrence, Mass.—Plans have been completed for the erection of the Central Methodist Episcopal church on the site of the Flander's estate on the north side of Haverhill St. The cost is $75,000. The structure will be of brick and stone construction, 61 × 140 ft., and have a basement. The general contract is held by A. W. LANG & CO.

Lowell, Mass.—A store and office building is to be erected on the Hamilton wall site for C. E. and W. T. Bradley. To be 290 × 60 ft.; to cost $80,000.

Springfield, Mass.—A block is about to be erected on Main and Bond Sts. for A. R. Hare. To be 96 × 48 ft., two stories, 47 × 41 ft., four stories, and 73 × 24 ft. one story, brick and limestone. William B. Reid, of Holyoke, is the Arch.

A 4-story block, 56 × 35 ft., is to be erected on Bradford St. for Paul H. Rappold. Bruno Wozny is the Arch.

A 4-story brick block will be begun at once on Bond St. for Harry Goodselt. B. E. Geckler is the Arch.

✚Worcester, Mass.—The contract for the Davis Library Building at Phillips Exeter Academy has been awarded to the CENTRAL BUILDING CO., 58 Front St. To be 69 × 67 ft., two stories, of brick and marble, concrete foundation. To cost $70,000. Crane, Goodhue & Ferguson, New York and Boston are the Archs.

Buffalo, N. Y.—A 5-story and basement retail business building 71 × 115 × 77 ft., fireproof construction, steel, stone and brick, is to be erected at West Genesee and Franklin Sts., by Thos. B. Lockwood, White Bldg. Plans for same are now being prepared by Esenwein & Johnson, 781 Ellicott Sq. Estimated cost, $50,000.

Howard L. Beck, Municipal Bldg., has completed revised plans for the remodelling of the Broadway Arsenal Bldg., Broadway, Potter and Milnor Sts., for use as a convention hall and exposition building; brick and structural iron, with steel truss roof. Estimated cost, $150,000. Bids are now being received by Francis G. Ward, Comr. Pub. Wks., Municipal Bldg.

Thos. B. Lockwood, White Bldg., will erect a 2-sty. and basement building, 60 × 115 ft., on Franklin St., south of Genesee St., for the Johnson-Kurtz Co., lessee.

Corona, L. I., N. Y.—Bids will be received by C. B. J. Snyder, Supt. School Bldgs., New York City, until Oct. 2, for general construction of Public school 92.

✚Yonkers, N. Y.—The Board of Contract and Supply has awarded to LYNCH & LARKIN, of 195 Riverdale Ave., a contract for erecting a scarlet fever hospital, at $70,000. Includes sewage disposal plant. The Board deferred action in regard to opening bids and awarding contract for Tuberculosis Hospital.

Mount Vernon, N. Y.—Clarence S. McClellan, Pres. of First National Banv, announces that three stories will be added to the 3-story bank building. Cost, about $50,000.

New York, N. Y.—Bids will be received by Charles I. Birge, Arch., 29 West 34th St., for the erection of a 7-story fireproof apartment at 133 West 72d St. for the Cluny Realty Co., 148 West 72d St. The cost is $75,000.

Plans have been prepared by Schwartz & Gross, 347 Fifth Ave., for the construction of a 12-story apartment house, 120 × 100 ft., at the northwest corner of Central Park West and 91st St. The cost is $600,000. The Midas Realty Co. is owner.

Bids will be received until 2.30 p. m., Oct. 5, by the Department of Public Charities, East 26th St., for furnishing all the labor and materials required for the erection of an addition and for certain alterations to the receiving hospital and waiting rooms on dock at foot of East 70th St., Borough of Manhattan.

Bids will be received by H. A. Smith and W. P. Miller, Archs., 1182 Broadway, about Oct. 1 for the erection of a 6-story model tenement, 100 × 90 ft. Mrs. Helen Hartly Jenkins, 232 Madison Ave., is the owner. The building will be erected at 525-531 West 47th St.

Bids are being received by J. M. Darrach, Arch., 10 East 33d St., for the erection of a 9-story duplex apartment house at 128 East 60th St. The 128 East 60th St. Co., 111 Broadway, is the owner. The cost is $100,000.

Plans have been completed by Neville & Bagge, Archs., 217 West 125th St., for the erection of an 8-story apartment house at 93d St., east of Amsterdam Ave. The 163 West 93d St. Co., 34 Nassau St., is the owner. Cost, $150,000.

Plans have been completed by Moore & Landseidel, 148th St. and Third Ave., for the erection of a 5-story tenement building at 182d St. Mary Hallecy, 516 West 182d St., is owner. Cost, $40,000.

Plans have been prepared for the erection of a 5-story hotel on the northwest corner of Front and Jackson Sts. for the Servants of Relief of Cancer, of which Rose Hawthorne Lathrop is Pres., with headquarters at Hawthorne, N. Y. It will be known as the Saint Rose's Free Home for Incurable Cancer, and will have a facade of brick with ornamental trimmings in marble and tarra cotta. The building will have a frontage of 70 ft. on Jackson St., where the main entrance will be located, and 69 ft. on Front St. James W. O'Connor, Arch. Cost, $100,000.

N. Serracino, 1170 Broadway, New York, has been commissioned to prepare plans for the Convent of the Sisters of St. Ursula of the Blessed Virgin. Building to be erected on a plot 45 × 99 ft., situated north side of 142d St., 180 ft. east of Amsterdam Ave. Structure will be five stories and cellar, Gothic style, light gray brick, limestone trim and copper cornice. Excavation has been starter.

Bids will be received by the Department of Public Charities, East 26th St., New York, until 2.30 p. m., Oct. 3, for furnishing all the labor and materials required for the entire completion of the new dormitory for ferale help now under construction at the Metropolitan Hospital Blackwell's Island, the city of New York.

✚The contract has been awarded to THE FOUNDATION CO., 115 Broadway, for installing the foundations of the Seamen's Church Institute, located at Coenties Slip and South St., New York City. The contract will consist of installing caisson cofferdams around the entire lot, which is approximately 90 × 100 ft. These caissons will be sunk to rock which is found at an average depth of 35 ft. below the street level. There will be 16 pneumatic caissons in all, averaging in size 24 × 55 ft. Between these caissons, a pneumatic joint will be made, resulting in a watertight cofferdam around the entire lot. The cellar will be excavated to a depth of 33 ft. below the level of the curb. Included in the contract will be the work of shoring and underpinning the surrounding buildings and streets, and the installation of concrete footings inside the cofferdams to support the interior columns of the structure. The architects for this contract are Messrs. Warren & Wetmore, 3 East 33d St. The Engineers are Opdike & Deutsch, and the general contractor is Mr. John Downey.

Syracuse, N. Y.—William A. Schuyler is having plans prepared for a number of 2-family houses which he will erect in Clarendon St.

The Greenway Brewery, Martin O'Melia, Pres., has secured a permit to erect a 6-story mercantile building, to be known as the Syracuse Terminal Bldg., at 334 West Water St., to cost $150,000. Plans were prepared by Albert L. Brockway, Syracuse.

Whippany, N. J.—Bids will be received until Oct. 18 by the Board of Education, Hanover Township, Whippany, for erecting a school at Hanover Neck. Chas. G. Jones, 280 Broadway, New York, N. Y., is Arch.

Philadelphia, Pa.—It is reported that a syndicate headed by John Hinkle is negotiating for the purchase of a site at the corner of Broad and Locust Sts., where the Hotel Windermere now stands for the purpose of erecting a hotel. The building with the lot on which it stands will cost approximately $2,000,000. It will be 18 stories high, 85 × 127 ft., 15 stories will be devoted to sleeping rooms.

A hotel will be erected here by syndicate headed by Charles P. Taft, it is reported.

✚Baltimore, Md.—The contract has been awarded by the American Ice Co., Wesley M. Oler, Pres., 15 Exchange Place, Jersey City, N. J., to the FIDELITY CONSTRUCTION CO., Knickerbocker Bldg., Baltimore, for the construction of an ice manufacturing and storage warehouse at Franklin and Smallwood Sts. Plans have been prepared by Mortimer & Co., New York, N. Y. The cost of the plant is $200,000.

Plans have been prepared by Henry J. Tinley, 314 North Charles St., for the construction of an apartment house on Garrison Ave., Wallbrook. The building will be of brick construction, trimmed with marble and will be six stories. The cost is $70,000. Owner is Arch.

✚The contract has been awarded to A. F. NICHOLSON, Ferndale Ave., near Norwood, for the erection of a parish house of brick construction, 44 × 88 ft. Plans by Alfred Mason, 746 West Baltimore St. The Protestant Episcopal Church of Nativity is owner. The Rev. Hugh W. S. Powers is Rector.

The Baltimore News Co., 318 West German St., has plans and specifications by Owens & Sisco, Archs., Continental Bldg., for a warehouse to be erected at 227 North Calvert St., to be of brick and stone construction, three stories, slag roof, steam heat, iron and steel work. Bids have been received and the contract will be awarded shortly.

Senator J. Charles Linthicum, 217 St. Paul St. has plans by Chas E. Cassell, Arch., Law Bldg., for an apartment house to be erected at Park Ave. and Whitelock Sts.; ten stories, pressed brick and Indiana limestone construction; terra cotta and granite trimmings; electric lighting, hot water heating, vacuum cleaning plant; cost, $250,000.

✚The contract has been awarded to P. J. CUSHEN, 213 Courtland St., for the construction of a school at Westwood and Rosedale Aves. for the Mayor and City Council. The cost is $44,576.

✚The contract has been awarded to CHARLES L. STOCKHAUSEN, Gay and Water Sts., for the construction of a school at Main and Garrison Aves. The building will be of brick and stone construction. The cost is $56,947.

Robert C. Ulloich, Arch., has been commissioned by the St. Charles College, Cardinal Gibbons, Chn., to prepare plans and specifications for a college building at Ellicott City to replace the group of buildings recently destroyed by fire. The cost is $350,000.

✚The contract has been awarded to WILLIAM H. PORTER & SON, 505 Forrest St., for the erection of a store building at 526-28-30-32 North Gay St. Plans have been prepared by John Freund, Jr., 210 East Lexington St. The building will be of brick construction with concrete and cement foundations, iron and steel work and hot water heating. The construction work will start soon.

✚The contract for the erection of an Enoch Pratt Free Library branch building on Fifth St., near Park Heights Ave., was awarded to WALTER E. BURNHAM, and work will begin at once. According to the plans, drawn by Arch. J. Appleton Wilson, the proposed building will be one story and basement, with slate roof and concrete foundation. It will be of red pressed brick, with granite trimmings.

A warehouse to cost about $50,000 is to be built on the lot at 213 West Pratt St. by the Trustees for the Johns Hopkins Hospital. It will be occupied by the John Deere Plow Co. Archer & Allen have been commissioned to prepare the plans. The proposed building will be five stories high of concrete, stone and pressed brick. It will measure 38 × 150 ft. and is to be equipped with electric elevator and steam heat.

✚Cumberland, Md.—The contract has been awarded to J. L. DE HAVEN, Cumberland, for the erection of a theater, office building and lodge hall, to be three stories high, 26 × 126 ft., of brownstone, brick and steel and fireproof construction. Plans were prepared by Wright Butler, Cumberland.

✚Baltimore & Ohio R. R. Co., F. L. Stuart, Ch. Engr., Baltimore, Md., awarded contract to P. FARRELL, Cincinnati, Ohio, to remodel Queen City Hotel for station, etc., erect freight depot and construct subway at Harrison St. crossing. Total cost, estimated at $150,000.

Sparrows Point, Md.—The Baptist Congregation has plans by Julius E. Pyles, 410 Dover St., for edifice; will be of stone construction, 1-story, concrete foundation, steam heat, gas and electric lighting.

✚Crownsville, Md.—The Managers of State Hospital for Colored Insane, Austin L. Crothers, Ch., awarded contract to JOHN WATERS 23 East Center St., Baltimore, Md., to erect hospital building, to cost about $60,000.

Hagerstown, Md. — The Western Maryland Ry., H. R. Pratt, Ch. Engr., Hillen Station, Baltimore, Md., contemplates, it is reported, various improvements in its yards, including roundhouse, coal chutes, ash pits, trackage and passenger station, costing about $250,000.

Washington, D. C.—Bids will be received until 2 p. m., Sept. 28, by the Commissioners of the District of Columbia for constructing a 4-room school building in Burrville, at the corner of Division Ave. and Hayes St. and for the construction of a 4-room school building on Military Rd. Plans and specifications may be obtained from the office of the Chief Clerk, Room 427, District Bldg., Washington, D. C.

Berkeley Station, Va.—The Government will make improvements to St. Helena Training Station under direction of Executive Officer Stone of U. S. Revenue Ship Franklin; will weatherboard 500 bungalows halfway from ground, change heating system from underground steam equipment and replace board sidewalks with granolithic pavements 5 ft. wide.

***Lexington, Va.**—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Oct. 24 for the construction of a 1-story and basement, non-fireproof, brick and stone-faced building of approximately 4,200 sq. ft. area (including plumbing, gas piping, heating apparatus, electric conduitc and wiring and lighting fixtures) for the U. S. post-office at Lexington, Va. Drawings and specification may be obtained from the Custodian of site at Lexington, Va., or at the office of the Supervising Architect.

✚Portsmouth, Va.—The contract has been awarded to the RICHARDSON CONSTRUCTION CO., Norfolk, Va., for the construction of a bank building to be two or three stories high. The cost is $40,000. Plans by Benjamin F. Mitchell, Arch., Norfolk, Va.

Richmond, Va.—Plans and specifications have been prepared by Carneal & Johnson, 409 National Bank of Virginia Bldg., for the erection of a store and warehouse for the Watkins-Cottwell Hardware Co. The building will be 100 × 133 ft., of mill construction and three stories high.

Plans have been prepared for the Joseph A. Dart Tobacco Co., Richmond, Va., by Anderson, Cain & Shepherd, Richmond, for a tobacco warehouse to be four stories high, 115 x120 ft., and of brick and mill construction. The cost is about $40,000. Bids will be received soon.

✚Bluefields, W. Va.—The contract has been awarded to J. O. HEDERMAN, 15 East Fayette St., for the construction of an office building for the Bluefield Building Co., in Bluefield, W. Va. Mr. Hederman's bid was $122,900. According to the plans prepared by H. M. Mitchell, of Roanoke, Va., the proposed structure will be six stories high, of pressed brick and stone, with Indiana limestone and terra cotta trimmings. Three plunger elevators will be installed. The interior will be finished in polished oak and mahogany. It will be entirely fireproof. Work will commence soon.

Columbia, S. C.—Bids will be received by the Board of Directors, South Carolina Penitentiary, Columbia, until Oct. 4, for erecting two brick, steel and concrete stockade buildings on the two State farms in Sumter County. Todd & Benson, 39 Broad St., Charleston, are the Archs.

✚Savannah, Ga.—The contract has been awarded to the CHARLES McCAUL CO., Tenth and Sansom Sts., Philadelphia, for the erection of a $450,000 hotel to be built in Savannah, Ga., for the Savannah Hotel Co. The structure will be fireproof throughout and will contain 180 rooms, ten stories in height, and will measure 135 × 100 ft.

✚**Ensley, Ala.**—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Ensley, Ala., to GEORGE W. STILES CONSTRUCTION CO., Rookery Bldg., Chicago, Ill., at $43,595.

Gadsden, Ala.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of an extension to the post-office building at Gadsden, Ala., to the INTER-STATE CONSTRUCTION CO., LTD., Saginaw, Mich., at $83,362.

✚**Lebanon, Ky.**—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Lebanon, Ky., to JAMES DEVAULT, Canton, Ohio, at $42,653.

Columbus, Ohio.—Bids will be received by the Ohio State Board of Agriculture at Columbus, until Oct. 11, for erecting a laboratory, hyper-immune test pen, infection yard and crematory group of buildings at the Ohio State Serum Farm, three miles east of Columbus.

Lima, Ohio.—F. L. Packard has returned to the bidders, unopened, the bids submitted for the mechanical equipment, heating, ventilation, etc., at the Lima State Hospital, and the work will be readvertised.

Salem, Ohio.—It is reported that the Hospital Association will receive bids until Oct. 15 for erecting a 3-story, 50 × 60 ft. hospital; cost, $65,000. C. C. & A. L. Thayer, Lawrence Savings & Trust Bldg., New Castle, Pa., have prepared the plans.

Kingman, Ind.—Henry Lawson, Trus., Mill Creek Township, will receive bids until Oct.7 for erecting a 6-room, 2-story brick school. M. L. Carr, Indianapolis, prepared the plans.

Brazil, Ind.—The Trustees of local lodge I. O. O. F. 15 will soon ask for bids for the erection of a 4-story business block and lodge hall on corner Main St. and Forest Ave.

Kentland, Ind.—R. W. Howard has been granted a franchise for the construction and equipment of a new electric light and power plant. Bids will be received soon.

Indianapolis, Ind.—The Auto Owners Service Co. has ordered plans on which bids will be received for the construction of a large brick and concrete garage on Pratt St. near Meridian. The building will be 106 x 122 ft., two stories high.

The Sanborn Electric Co. has purchased a site on Illinois and New York Sts. upon which to build a 6-story business and display building. Bids will be ordered as soon as plans are made and approved G. M. Sanborn, Pres.

South Bend, Ind.—The American Car Seal Co. has incorporated to construct and establish a large factory for the manufacture of seals for sealing cars. Barney C. Smith is Pres.

✚**Monroe, Mich.**—James [illegible] Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded the contract for the construction of a post-office at Monroe, Mich., to W. J. McALPINE, Dixon, Ill., at $47,150.

Ann Arbor, Mich.—Albert Kahn and E. Wilby, 800 Trussed Concrete Bldg., Detroit, will receive bids until Oct. 10 for the new Artnur Hill Memorial Auditorium, to be erected in Ann Arbor, Mich., for the University of Michigan. Plans and specifications can be had at the office of the architects, and proposals will be received by the Board of Regents of the University of Michigan.

✚**Cadillac, Mich.**—The Building Cmn. of Wexford County has awarded the following contracts for the county court-house, to be located at Cadillac, Mich.: General contract, to BANHAGEL BROS., Lansing, Mich., for $67,270; heating and plumbing, to the CADILLAC PLUMBING & HEATING CO. for $5,200. Felix H. Flynn, Clk. E. A. Bond, of Lansing, Mich., is the Arch.

Detroit, Mich.—J. J. Walsh, 1205 Chamber of Commerce Bldg., Detroit, is preparing plans for a 3-story and basement apartment building, 50 × 150 ft. The building to contain 22 apartments, for John Wetsman, 99 Watson St. Cost, $30,000.

Detroit, Mich.—C. W. Kochler, 808 Chamber of Commerce Bldg., Detroit, is preparing plans for a 2-story and basement apartment house, 104 x 50 ft., for F. L. St. Amour, 195 East Blvd. Owner will purchase materials and sub-let all contracts.

F. T. Bancroft, 1728 Ford Bldg., is preparing plans for a theatre, 100 × 120 ft., for the Washington Theatre Co. Building to cost $50,000.

Malcomson & Higginbotham, Archs., 404 Moffat Bldg., and Amerman, McCall & Anderson, Engrs., 1330 Penobscot Bldg., are revising plans and will receive bids soon on the Northwestern High School, to be two stories and basement, 241 x 162 ft., for the Board of Education of Detroit. M. R. Marr is Secy., 50 Broadway, Detroit. Cost, $180,000.

Chicago, Ill.—S. N. Crowen, 108 La Salle St., has finished plans for a 4-story L shaped building, to consist of two wings, each 40 × 100 ft., to be erected for Popular Mechanics at Cass and Ontario Sts. on the site of the old Joseph Medill residence. It will cost $60,000.

Milwaukee, Wis.—A $72,000 addition to the Milwaukee Hospital will be erected, the building inspector having approved the plans. The new wings will comprise four stories, brick walls and reinforced-concrete floors. The dimensions will be 108 × 49 ft.

Milwaukee, Wis.—The Milwaukee Hospital, State and 23d Sts., will build an addition, to cost $72,000. It will be four stories and 49 × 108 ft. in size.

Milwaukee, Wis.—Van Ryn & De Gelleke, Archs., 725 Caswell Blk., are preparing plans for addition to the Superior State Normal School, which will cost $60,000. It will be of brick and steel and 50 × 84 ft. in dimensions. Theodore Kronshage, Milwaukee, is Pres.

The Special Committee of the County Board of Supervisors has opened the bids for constructing the horticultural, dairy and administration buildings of the new county agricultural school to be erected at Wauwatosa. The lowest bid was that of Riesen & Riesen, for $107,800. Seven more buildings are proposed. Martin Plehn is County Clk.

A bathing pavilion for the South Shore Park is to be built for the city. Harry E. Briggs, Comr. of Pub. Wrks., will received bids for construction in his office.

Stewart, Minn.—Bids will be received until Sept. 30 by the Board of Education, E. N. Schmitz, Secy., for erecting a 4-room addition to the present school. C. Howard Parsons, 601 Phoenix Bldg., Minneapolis.

St. Paul, Minn.—C. H. Johnston, State Arch., 715 Capital Bank Bldg., has completed plans for three brick and cut stone fireproof cottages to be built at the State Asylum at Hastings, Minn. Bids will soon be called for by the State Board of Control. P. M. Ringdal is Chn. Cost, complete, $75,000.

Wichita, Kan.—The Board of Education will receive bids until Oct. 2 for furnishing material and erecting a 2-story and basement brick 4-room addition to the Linwood School, Pattie & Zimmerly Sts.

Redfield, S. Dak.—It is reported that bids will be received until Oct. 10 by W. H. King, Secy. State Bd. Charities and Corrections at Parker, for constructing a hospital and infirmary building at the Northern Hospital for Insane. Separate bids will be received for the heating and ventilating and plumbing.

Benton, Mo.—Bids will be received until Oct. 18 by the County Court, for constructing a fireproof court house. H. H. Hohenschild, Suite 311-2 Navarre Bldg., St. Louis, is Arch.

Springfield, Mo.—Bids will be received, it is reported, by the Board of Managers at the office of Smith, Rea & Lovitt, 602 Finance Bldg., Kansas City, Mo., until Oct. 7, for the erection of the Pythian Home of Missouri buildings, at Springfield.

Paris, Mo.—It is reported that Monroe County voted for a $100,000 courthouse. The building will be of fireproof construction.

Muskogee, Okla.—The Muskogee Library Board, Carroll S. Bucher, Pres., will receive plans and specifications until Nov. 1 for a public library. The cost is not to exceed $55,000.

Clifton, Ariz.—The Board of Supervisors of Cochise County invite architects to submit plans for a new court house, to be erected in Clifton, at a cost of $50,000. A four-block site has been purchased.

Phoenix, Ariz.—The Territorial Board of Control has appropriated $50,000 and $25,000 insurance money is available for the construction of the insane asylum, recently burned.

✚**Olympia, Wash.**—The contract has been awarded by the State Capitol Commission to WILDER & WHITE, 156 Fifth Ave., New York City, for the $5,000,000 capitol which is to be constructed on the group plan. The first building will be the Temple of Justice. The cost is $350,000.

✚**San Francisco, Cal.**—The Bankers' Investment Co. has awarded contracts as follows, through the offices of Frederick H. Meyer, Humboldt Bank Bldg., for the construction of a 4-story Class A building at Geary St. and Grand Ave.: CLINTON FIREPROOFING CO., Monadnock Bldg., reinforced-concrete work in floors and walls, $60,350; McGILVAY STONE CO., Seventh and Townsend Sts., granite and sandstone work, $31,500; LANGE & BERGSTROM, Monadnock Bldg., brick work, tile, partitions, $50,500; SMYTH BROS., Monadnock Bldg., inside plastering, ornamental plastering, $10,900.

✚**San Francisco, Cal.**—J. R. Miller, Lick Bldg., awarded contract to J. D. HANNAH, Monadnock Bldg., at $39,375, for constructing an addition to the building on Market St., owned by Emma C. Ferris.

Fabre & Baerwald, Metropolis Bldg., are preparing plans for a 4-story store and hotel to be erected in the downtown hotel district at a cost of $75,000.

Los Angeles, Cal.—C. E. Apponyi, 521 Consolidated Realty Bldg., has been commissioned to prepare plans for a 4-story reinforced-concrete store and apartment building to be erected on National Ave. at San Diego by George Retzer. The structure to be 50 x 140 ft., with glazed terra cotta and brick facing, hardwood and marble trim, elevators, steam heat, etc. The estimated cost is $60,000. Mr. Apponyi has also been commissioned to prepare plans for a 13-story Class A steel frame office building to be erected in San Diego for an eastern syndicate. The structure to cover a space 100 × 200 ft. and to cost $1,000,000.

✚The C. F. BARTON CO., Union Trust Bldg., has ben awarded contract at $40,000 for the erection of a 4-story brick apartment house, 50 × 88 ft., on Bixel St., for Richard L. Phister. To contain all improvements, including automatic electric passenger elevator, freight elevator, steam heat, vacuum system, etc.

✚Parkinson & Bergstrom, Security Bldg., awarded contract to BLY BROS. STONE CO. at $95,000 for the granite work on the 11-story office building to be erected at 70 Spring St. by the I. N. Van Nuys Bldg. Co. at a cost of $1,250,000.

Porterville, Cal.—Plans are being prepared by Benjamin McDougal, Sheldon Bldg., for a large reinforced-concrete hotel building to be erected in Porterville. The structure will be in the Spanish style, and will contain all modern improvements and will cost $100,000.

San Francisco, Cal.—Chas. C. Frye, French Bank Bldg., is completing plans for a 4-story reinforced-concrete warehouse building to be erected for the Lally Plumbing Supply Co. on Second St. at a cost of $100,000.

Sarnia, Ont.—Bids will be received until Oct. 11 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, for constructing an armory at Sarnia. (Extension of date from Sept. 20.)

Red Deer, Alta.—Bids will be received by the Department of Militia and Defence, Ottawa, until Sept. 30, for constructing an armory at Red Deer. Plans at the office of Maj. H. L. Gaetz, 15th Light Horse, Red Deer.

WATER SUPPLY—IRRIGATION.

Lowell, Mass.—An enlargement of the water-works is proposed, and will probably be advertised before 1912 that work may begin in the spring. The work includes a pumping station and a reservoir of 6,000,000 gallons capacity, standpipe, etc. Frank A. Barbour, Tremont Bldg., Boston, Mass., is Ch. Engr.

Westfield, Mass.—The Board of Water Commissioners on Sept. 20 opened bids for laying about 6,100 ft. of water mains in Montgomery St. and Pine St. The bids follow: J. M. Dineen & Son, of Easthampton, and O. L. Davis, of Williamsburg (joint bid), 24¾ cts. a lin. ft.; E. M. Denoon & Co., of Springfield, 37 cts.; Ablette & Bowes, of Cohoes, N. Y., 40 cts.; Cordner & Montague, of Springfield, 63 cts.

✚**Worthington, Mass.**—Bids were opened on Sept. 19 by the Fire Commission for the construction of a fire district. CROSBY & PARKER, of Brattleboro, Vt., secured the contract. The contract for hydrants and valves was let to the NORWOOD ENGINEERING CO., of Florence, Mass., and the contract for c.-i. pipe to R. D. WOOD & CO., of Philadelphia, Pa.

Carthage, N. Y.—The Board of Water Commissioners has decided to install a new flume and bulkhead at the pumping station. Work will be done by day labor.

✚**Matteawan, N. Y.**—The contract for furnishing and laying 22,000 ft. of 4, 6 and 8-in. c.-i. pipe and fittings has been awarded to PARTRIDGE & BURKE, of Irvington, N. Y.

Brockport, N. Y.—Witmer & Brown, Consult. Engrs., Chapin Block, Buffalo, N. Y., we are officially advised, have been engaged to locate a supply of water for the village, and design a new municipal system. It is considered possible that the village may go to Lake Ontario for a supply at a cost of about $250,000.

✚**Argyle, N. Y.**—The contract for installing water-works in the Washington County Almshouse buildings here has been awarded to JOHN B. DOWER, of Ballston Spa, N. Y., at $9,030.

***Niagara Falls, N. Y.**—Bids will be received until Oct. 9 for reinforced concrete, excavation, masonry and other work connected with a 10,000,000-gallon filter plant for the Western New York Water Co. at Niagara Falls. Plans and specifications may be obtained upon request. Contractors proposing to bid must furnish with their bids, evidence that they are experienced and well equipped to do this character of work. Address American Pipe & Construction Co., 112 North Broad St., Philadelphia, Pa.

Morristown, N. J.—The Normandy Water Co. has been sold to Joseph B. Dickson and Jesse L. Eddy, of Normandy Heights, Morristown. Improvements are being considered.

Pittsburgh, Pa.—See item under Streets and Roads.

✚**Rittersville, Pa.**—The contract for constructing the water plant at the State Insane Asylum here has been awarded to GEORGE H. HARDNER, of Allentown, Pa., at $29,950.

***Greencastle, Pa.**—The Borough of Greencastle, Franklin County, Pa., will receive bids for the construction of a reservoir involving about 25,000 cu. yds. earth excavation and 1,250 cu. yds. of concrete in lining and accessories until 8 p. m., Oct. 11. Plans and specifications may be seen at the office of B. F. Bloser, Chn. Water Com.; C. H. Clippinger, Secy., and Mason D. Pratt, Consult. Engr., Harrisburg, Pa.

Baltimore, Md.—Alfred M. Quick, Water Engr., will submit plans to the Water Board for a new dam for impounding reservoir on Gunpowder River. Estimated cost, $350,000. Plans have been prepared under [illegible] direction of Emory Sudler, Asst. Water Engr., who is in charge of the Gunpowder Improvement division. The enlarged reservoir will contain 3,000,[illegible]00 to 4,000,000,000 gallons of water.

Rutherfordton, N. C.—The Town Council has awarded the contract for the installation of the water-works and electric plant to B. F. [illegible]KER, of Charlotte, N. C. Noted on Sept. 7.

Dalton, Ga.—The Council has decided to construct a filter [illegible] for the water-works system.

Doerun, Ga.—The city [illegible] engaged the J. B. McCrary Co., Atlanta, Ga., to supervise the construction of water-works. Estimated cost, [illegible].

Lexington, Miss.—Bids will be received until Oct. 18 by the Mayor and Board of Aldermen for water-works, comprising two flowing artesian wells, reservoir, steel tank and tower, steam or gasoline pumps, boilers and about six miles of 6 to 10-in. c.-i. mains, with hydrants and valves. For specifications address W. G. Kirkpatrick, Engr., Jackson, Miss.

✚**Clarksdale, Miss.**—The City Council on Sept. 5 awarded contracts for work in connection with the proposed extension of water-works and sewerage in Dolan, Oakhurst and Myrtle Hall, suburbs of Clarksdale, as follows: Air compressor and water-works pump, ALLEN ENGINEERING CO., Memphis, Tenn.; feed water pump, CLARKSDALE MFG. CO., Clarksdale; 53,000 ft. of iron pipe, U. S. CAST IRON PIPE & FOUNDRY CO., Birmingham, Ala.; 100 valves and hydrants, COLUMBIA IRON WORKS, Chattanooga, Tenn. Total amount of contracts about [illegible],000.

Somerset, Ky.—The United Water, Light & Traction Co., J. [illegible] Waddle, Gen. Mgr., is considering, it is reported, the installation of a filter plant with a capacity of about 500,000 gallons daily.

Cleveland Heights, Ohio.—Bids will be received by H. H. Canfield, Village Clk., 309 Beckman Bldg., Cleveland, Ohio, until noon, Oct. 31, for furnishing the material and labor necessary for the improvement of Edendale St., from the north line of Mayfield Road to the south end of street, by constructing a 6-in. water main therein, according to the plans and specifications on file at his office at the Town Hall, and at the office of The F. A. Pease Engineering Co., Williamson Bldg., Cleveland.

East Liverpool, Ohio.—The City Council has passed an ordinance authorizing the issue of $150,000 of bonds for the installation of a new water-works plant.

New Concord, Ohio.—Plans are being prepared by J. T. Fairchild, of Cambridge, Ohio, for the construction of a large reservoir and pumping station here for Shaw Johnson & Co., of New Concord.

Lorain, Ohio.—Bids will soon be received by the Department of Public Service for the construction of a filter basin and coagulating plant. Estimated cost, $25,000. C. M. Osborn is City Engr.

Oxford, Ohio.—Bids will be received by D. P. Beaton, Village Clk., until noon, Oct. 6, for the construction of an extension to the water-works.

✚**Laporte, Ind.**—The Board of Public Works on Sept. 15 awarded a contract to A. M. OSBORN, of Chicago, for the construction of a new water-works system for this city. The plant will be constructed on the Little Kankakee River, and water will be piped to this city, a distance of three miles. The system is to be constructed at once.

Muskegon, Mich.—Bids were received on Sept. 5 and rejected on 7,000 ft. of 48-in. c.-i. intake pipe, intake, well at shore of Lake Michigan, and water mains for distributing systems, including valves, hydrants and pipe connections with existing systems from plans of Riggs & Sherman Co., 613 Nasby Bldg., Toledo, Ohio. The only complete bid received was that of the Nash-Dowdle Co., Chicago, Ill., at $423,786 for c.-i. pipe, and $400,000 if steel pipe could be used. For everything but the intake pipe, T. H. Iglehardt, of Chicago, bid $216,307. The Lynchburg Foundry Co., of Lynchburg, Va., bid on pipe only $185,422. U. S. Cast Iron Pipe & Foundry Co., of Chicago, Ill., $187,842 for pipe. James B. Clow & Son, Chicago, $143,711 on pipe for the distribution system, not including the intake. The C. H. Starke Dredge & Dock Co., Milwaukee, Wis., $98,000 for intake, the city to furnish the material. The Muskegon Boiler Works, $43,000 for steel pipe in the intake line. Bids on valves follow: Darling Pump & Mfg. Co., Williamsport, Pa., 6 to 47-in., $5,888; Chapman Valve Mfg. Co., 6 to 24-in., $8,352; Roe-Stephens Mfg Co., Detroit, Mich., 6 to 24-in., $5,871; Ludlow Valve Mfg. Co., Troy, N. Y., 6 to 48-in., $7,706; Kennedy Valve Mfg. Co., Chicago, Ill., 6 to 48-in., $8,152. New bids, we are officially advised, are asked until Oct. 16, instead of Oct. 2, as noted on Sept. 21.

Chicago, Ill.—Bids will be received Sept. 30 by L. E. McGann, Comr. Pub. Wks., for furnishing and delivering at the Meter Mechanical Division Shops, 1330 Indiana Ave., 2,000 ¾-in., 1,000 1-in., and 500 1½-in. brass union nipples.

Winchester, Ill.—Bids will be received by the Commissioners of Big Swan Drainage and Levee District at the office of the County Clerk at Winchester, until Oct. 6 for furnishing machinery and equipment and installing the same for pumping station of the district. C. W. Brown, Scott Block, Jacksonville, Ill., is Engr.

Sullivan, l.—Bids were opened on Sept. 18 as ollows by the city for the construction f a well: C. C. Bowman, $10,000; W. . Patterson, $11,920. A. Ashbrook i ity Clk.

Atkinson, ll.—The city is having plans prep d for water-works improvements. Estimated cost, $15,000. Jesse Stei is City Clk.

Gardner, ll.—The city is contemplating la g watermains in various streets. T as Holden is Mayor.

Plattevill , Wis.—Bids will be received unt 7 p. m., Oct. 2, by J. E. Kennedy, S y., Water Comn., for one deep well unger pump having a capacity of 0 gallons per min. Copies of specifica ons may be secured at the office of t Water Commission.

+Inwoo , Iowa.—The City Council has award the contract for the construction water-works, including tower, fou lations, etc., bids opened on Sept. 5, to W. D. LOVELL, 1415 Eighth St., Minne olis, Minn., at $12,644. The work incl des: One 50,000-gallon steel tank on a 100-ft. steel, 2,270 ft. c.-i. 8-in. pipe, 3,030 ft. c.-i. 6-in. pipe, 4,758 ft. c.-i. 4-in. pipe, 330 ft. of hydrant connection , 17 hydrants, five 8-in. gate valves, fiv 6-in. gate valves, seven 4-in. gate va ves.

Redfield, Iowa.—On Sept. 13 the citizens voted to issue $15,000 of bonds for the installation of water-works and an electric light system.

Kent, Minn.—L. Brickles, Village Clk., will receive bids until 2 p. m., Oct. 2, for the construction of a tubular well.

Stillwater, Minn.—The Board of Water Commissioners is planning for the improvement of the water system.

Syracuse, Kan.—Bids will be received until 6 p. m., Oct. 4, by the city for the installation of water-works and an electric light plant. Estimated cost, $40,000. The J. S. Worley Co., Kansas City, Mo., is Engr.

Hill City, Kan.—The citizens have voted to issue bonds for $50,000 for the installation of a water-works and an electric light plant.

Beatrice, Neb.—S. Q. Free, City Clk., will receive bids until 4 p. m., Sept. 28, for the construction of a reinforced concrete reservoir.

Hickman, Neb.—The village has decided to install a water-works system.

Leigh, Neb.—Bonds for $10,000 for the construction of a water-works system here have been voted.

Meadow Grove, Neb.—A. G. Ludsig has submitted the lowest bid received by the village for the construction of a water-works at $6,500.

Plattsmouth, Neb.—The installation of a municipal water-works system here is under consideration.

Shelby, Neb.—Fred J. Strain, Village Clk., will receive bids until 2 p. m., Oct. 10, for the construction of a water-works system.

Steinauer, Neb.—E. A. Steinauer, Village Clk., will receive bids until 4 p. m., Oct. 5, for the construction of a water-works system here. W. E. Donner is Engr., Grand Island, Neb.

Loup City, Neb.—Bids will be received by P. T. Rowe, City Clk., until noon, Oct. 9, for digging a ditch for laying watermains.

+Henry, S. Dak.—Bids were received by the Town Council on Sept. 12, for the construction of water-works, and the contract has been awarded to W. D. LOVELL, of Minneapolis, Minn., at $10,004. The work includes one 50,000-gallon steel tank on a 100-ft. steel tower, including foundations, etc.; 7,450 ft. 8, 6 and 4-in. c.-i. pipe, 12, 8, 6 and 4-in. gate valves and 14 hydrants.

+Dunseith, N. Dak.—Bids were received on Sept. 11 by the Board of Trustees of the North Dakota Tuberculosis Sanitarium, Dunseith, for the construction on the grounds of the sanitarium of a water system consisting of a concrete basin, water mains, standpipe and pumping station, and also for the construction of a sewer system with septic tank, trunk line, tarps, manholes, etc. The contract has been awarded to the NORTHERN CONSTRUCTION & ENGINEERING CO., of Grand Forks, N. Dak., at $6,000.

+Grand Forks, N. Dak.—Bids were received on Sept. 22 by Charles J. Evanson, City Audr., for constructing watermains Nos. 70, 73 and 74. We are officially advised that contracts have been awarded as follows: Nos. 70 and 73, to NORTHERN CONSTRUCTION & ENGINEERING CO., of Grand Forks; No. 74, to B. O. PANKNESS, of Grand Forks.

Fargo, N. Dak.—Bids will be received by E. R. Orchard, City Audr., until 5 p. m., Oct. 2, for the construction of a 6-in. watermain in Water Main District No. 2.

Huntley, Mont.—Bids were received on Sept. 1 as follows by the U. S. Reclamation Service, Huntley, for the construction of earth work and structures, extension of the Main and High Line Canals, Huntley project, and the lateral system, in the vicinity of Bull Mountain and Anita, Mont.: (a) Schedule 1; (b) Schedule 2; (c) Schedule 3; (d) Schedule 4; (e) Schedule 5; (f) Schedule 6; (g) Schedule 7; (h) Schedule 8: Pipe Construction Co., Billings, (g) $45,946, (h) $2,789; J. E. Hilton, Manhattan, (a) $4,050, (b) $8,530, (c) $5,485, (d) $2,600, (e) $4,250, (f) $4,140; A. J. Sullivan, Billings, (a) $5,715, (b) $15,620, (c) $8,280; Keele & Asay, Lovell, Wyo., (b) $11,360; Heber W. Perry, Byron, Wyo., (d) $3,515, (e) $5,795, (f) $5,010; Nelson Rich, Prosser, Wyo., (a) $4,600, (b) $9,370, (c) $6,230, (d) $3,340, (e) $4,900, (f) $5,020, (g) $33,565 (h) $2,251; Lynn & Arnoldus, Lovell, Wyo., (a) $4,501, (b) $8,235, (c) $5,964, (d) $3,225, (e) $5,325, (f) $4,628; J. S. Hilend, Cowley, Wyo., (g) $32,549.

Wisdom, Mont.—Bids will be received by the Trail Creek Water Co. until 8 p. m., Oct. 31, for the construction of frame work for flume. O. J. Woodworth is Engr.

Pacific, Mo.—The citizens voted on Sept. 12 to issue $15,000 of bonds for the construction of a municipal water-works system.

Springfield, Mo.—The city is considering issuing $600,000 of bonds for the installation of a municipal water-works system. John Cowell is Pres. City Council.

Gravette, Ark.—The Council is considering the construction of water-works and an electric light plant. Estimated cost, about $25,000.

Bartlett, Tex.—Bids will be received until Oct. 2 by the city for 2,000 ft. of 4-in. c.-i. water mains and fittings. J. Dodt is City Secy.

Baird, Tex.—The city has issued bonds for the installation of water-works.

Cuero, Tex.—The City Council has taken steps to increase the water supply of the municipal water-works system. Another artesian well will be bored and pumping machinery installed.

+*Fort Worth, Tex.—The contract for the earth embankment and masonry section of the proposed dam and reservoir has been awarded by the city to the UNDERGROUND CONSTRUCTION CO., Siebold Hotel, Fort Worth, and Bank of Commerce Bldg., St. Louis, Mo.

Dallas, Tex.—The City Commission has awarded the contract for the construction of the first of the new permanent dams on Elm Fork of the Trinity River to increase the reservoir water supply for the city to JONES & CO. at $31,900. The dam will be of steel, reinforced concrete, 130 ft. long and 20 ft. high. Wide walls will be constructed between which the overflow of the reservoir will be guided. There will also be a spillway with a long side slope of concrete. The reservoir will have a capacity of about 250,000,000 gallons of water. The Commission will construct such other dams at different points on Elm Fork as the testing of this one may show to be feasible.

The City Commission contemplates installing a large municipal water purification plant. Bonds will be issued for the purpose.

Temple, Tex.—The City Council will install a 3,000,000-gallon pump, erect a new pumping station, and lay a duplicate main from the pumping station to 25th St.

Boley, Okla.—We are officially advised that the Western Engineering Co., Oklahoma City, Okla., is preparing plans for the installation of a water-works system here. Estimated cost, $33,000.

Grove, Okla.—Plans are being prepared by the Western Engineering Co., Oklahoma City, Okla., for the installation of a water-works and electric light system here. Estimated cost, $35,000.

Hollis, Okla.—The Western Engineering Co., Oklahoma City, Okla., is preparing plans for the construction of a water-works and sewer system here. Estimated cost, $72,000.

Muldrow, Okla.—The town has engaged the Western Engineering Co., Oklahoma City, Okla., to prepare plans and specifications for the installation of a water-works and electric light plant here. Estimated cost, $33,000.

Ochelata, Okla.—The Western Engineering Co., Oklahoma City, Okla., is preparing plans for the installation of a water-works system here. Estimated cost, $15,000.

Custer, Okla.—Plans are being prepared by the Western Engineering Co., Oklahoma City, Okla., for the construction of water-works and an electric light system.

+Muskogee, Okla.—The contract has been awarded to W. W. FULLER, of Muskogee, for the construction of a 6,000,000-gallon water purifying and softening plant for the city at $45,027. Alexander Potter, 114 Liberty St., New York, is Consult. Engr.

Ada, Okla.—Goodwin & Harper, 920 Scarritt Bldg., Kansas City, Mo., are preparing plans for water-works improvements here. Estimated cost, $30,000. The work will include a reservoir, a standpipe, valves, hydrants, special castings and c.-i. pipe. Bids will be asked soon.

Wagoner, Okla.—Plans and specifications are being prepared by the Benham Engineering Co., Campbell Bldg., Oklahoma City, Okla., for extensions to the water-works system. Bonds for $40,000 have been sold.

Boulder, Colo.—The City Council, we are officially advised, is advertising for bids for the construction of a timber-faced rock fill dam at Silver Lake to form a storage reservoir for the municipal water system. The dam will involve about 50,000 cu. yds. of rock fill. Estimated cost, about $60,000. The excavation for the dam is about completed. O. P. Clark is City Clk.

Salida, Colo.—The City Council has instructed the City Engineer to prepare plans for laying a new pipe line. Estimated cost, about $60,000.

***Boise, Idaho.**—Bids will be received by the U. S. Reclamation Service, Shaw Bldg., Boise, until 9 a. m., Nov. 1, for furnishing 164 lateral headgates for the Boise project. For particulars address the U. S. Reclamation Service, Boise, or Washington, D. C., J. M. McKinney, Acting Dir.

Weiser, Idaho.—The City Council is considering the extension of the water, sewer and light systems.

Nogales, Ariz.—The taxpayers have voted $175,000 of bonds for the installation of a water-works plant and distributing system and the construction of a sewer system.

***Sunnyside, Wash.**—Bids will be received by the U. S. Reclamation Service, Sunnyside, until 4 p. m., Oct. 16, for the construction of three concrete drops and the excavation of about 80,000 cu. yds. of material on Snipes' Mountain lateral, near Sunnyside. For particulars address the U. S. Reclamation Service, Sunnyside, or Washington, D. C., J. M. McKinney, Acting Dir.

***Mabton, Wash.**—Bids will be received by the U. S. Reclamation Service, Sunnyside, Wash., until 4 p. m., Oct. 16, for the excavation and backfilling of trenches, and construction of wood stave pipe and other structures in the vicinity of Mabton. For particulars address the U. S. Reclamation Service, Sunnyside, or Washington, D. C., J. M. McKinney, Acting Dir.

+Jacksonville, Ore.—The contract for the construction of the water-works system has been awarded by the City Council to C. E. BADE, of Portland, Ore., at about $25,000.

Portland, Ore.—Comprehensive plans for laying a system of watermains in southeast Portland, which will be adequate to supply a population of 130,000 and which will cost approximately $1,575,100, have been submitted to and adopted by the Water Board. D. D. Clarke is Water Engr.

Klamath Falls, Ore.—The Secretary of the Interior, it is reported, has suspended the contract made on Jan. 2, with W. H. Mason, of Klamath Falls, for the construction of the Lost River diversion channel, Klamath Irrigation Project, Oregon-California. The work will be completed by force account. W. W. Patch is Project Engr., Klamath Falls.

Woodburn, Ore.—Bonds for $25,000 to purchase a water plant and make improvements to same have been voted by the citizens.

La Grande, Ore.—The Secretary of the Interior, Washington, D. C., has authorized the Reclamation Service to place cement linings in a number of the main distributaries, Umatilla Irrigation Project, Oregon. Plans for this works include the lining of more than 30,000 lin. ft. of canals and the construction of about 10,000 lin. ft. of cement pipe, at a total cost of approximately $50,000.

Gresham, Ore.—The citizens have voted to issue $20,000 of bonds for the installation of a water-works system.

Dorris, Cal.—The Town Board of Trustees has rejected all bids received for the construction of the water-works system. Bonds for $12,500 were recently sold. New bids are asked until 8 p .m., Oct. 2.

Pasadena, Cal.—The North Pasadena Land & Water Co. will expend $100,000 in building a dam 100 ft. high in the Arroyo Seco. Tunnels are to be driven into the mountain sides and it is expected that a gravity flow of 250 miner's inches of water will be developed.

+Portersville, Cal.—Bids for furnishing c.-i. water pipe for the extension of the water system have been received as follows: Christian & Froelich, $27,914; Cram Co., $26,918; U. S. PIPE CO., San Francisco, $26,495 (awarded contract).

Bids for laying pipe were received as follows: George A. Rogers, $13,379; Western Engineering & Supply Co., $10,723; Chambers & Heafey, $12,473; Pringle & Dunn, $14,936; C. F. Braun & Co., $11,648. The contract has been awarded to the WESTERN ENGINEERING & SUPPLY CO., of Oakland, Cal.

Bids for constructing stand pipe were received as follows: C. F. Braun & Co., $5,530; Fred. B. Roberts Co., $4,925; Des Moines Bridge & Iron Co., $5,050; Western Pipe & Steel Co., $5,790. Noted on Sept. 21.

Long Beach, Cal.—Bids will be received until Oct. 11 for furnishing 1,625 tons of Class A and Class B c.-i. water pipe and 28 tons of fittings and specials. F. S. Craig is Pres. Bd. Pub. Wks.

Los Angeles, Cal.—The City Council has authorized the Public Service Commission to purchase and install a 10-in. salt water main at San Pedro and a 6-in. water main on Third St.

Redlands, Cal.—The Yucaipa Land Co. will construct an 80,000,000-gallon reservoir in the Yucaipa Valley.

San Francisco, Cal.—Bids will be received until 11 a. m., Oct. 18, by F. Van Schrader, Ch. Q. M., U. S. A., Chronicle Bldg., San Francisco, for the construction of a water and sewer system for temporary buildings at Camp Yosemite.

Exeter, Cal.—Bids for the construction of a municipal water-works system, to consist of a 100,000-gallon steel tank and tower, motor-driven centrifugal pumps and about six miles of mains, etc., will be received by the city until Oct. 18. Estimated cost, $40,000. Sloan & Robson, Nevada Bank Bldg., San Francisco, Cal., are Engrs.

Port Hope, Ont.—Bids will be received by the Secretary of the Board of Water Commissioners until 8 p. m., Sept. 29, for the following works: (a) filtration gallery, (b) laying intake pipes, (c) constructing pump well. Plans and specifications may be seen at the office of the Engineers, Mail Bldg., Toronto, or at the Board of Water Commissioners office. L. B. Powers, M.D., Chn.; R. Gray is Supt.; Chipman & Power are Engrs.

Whitby, Ont.—The Water and Light Commissioners will receive bids until Oct. 1 for the whole or part of the following work: (a) construction and sinking of an open concrete caisson, in the sand on the beach of Lake Ontario, to serve as a settling basin or intake well for water-works plant; (b) depression and alterations to intake pipe to adapt it for use with proposed intake well; (c) protection of intake pipe from damage by ice in winter. Drawings and specifications may be seen at the Mayor's office. W. J. Luke is Chn.; F. Rogers is Secy.

Monterey, Mex.—The Municipal Government will soon let the contract for the installation of 100 fire hydrants at a cost of about $25,000.

SEWERAGE.

(*+Denotes a contract awarded.*)

+Gilbertville, Mass.—The contract for building a system of sewers has been awarded to LEPARDS & WAY, Springfield, Mass., at $5,831. Other bids were as follows: Ceaser A. Rossi, Torrington, Conn., $6,997; Orlando & Atkins, Belchertown, Mass., $7,475; Cordner & Montague, Springfield, Mass., $8,550, and G. A. Leadbetter & Sons, Leominster, Mass., $12,256.

+Boston, Mass.—We are officially advised that bids for constructing Section 8 of the Stony Brook Improvement in West Roxbury have been received as follows, (a) trench, (b) tunnel: P. McGovern, (a) $99,525; W. J. BARRY, (a) $103,650, (b) $97,850 (awarded contract); P. W. Hill, (a) $110,681, (b) $110,681; Coleman Bros., (a) $113,578, (b) $113,278; W. O. Dolan, (a) $115,185, (b) $118,985; A. Cefalo, (a) $120,631, (b) $120,631; C. R. Gow, (a) $117,943, (b) $123,843; H. P. Nawn Co., (a) $137,697, (b) $146,153; Engineer's estimate, G. W. Hamilton, (a) $130,001, (b) $129,659. Noted Aug. 10.

Mamaroneck, N. Y.—Preliminary plans have been prepared for the construction of three branch outlet sewers converging at Harbor Island in the Long Island Sound and a purification and disposal plant on the island. Estimated cost, $122,926.

Oswego, N. Y.—Plans have been prepared by T. Chalkley Hatton, Consult. Engr., Wilmington, Del., for a sewer system on the east side of the river and a disposal plant on the west side. Estimated cost, $182,000.

Syracuse, N. Y.—Bids will be received at the office of the Board of Contract and Supply until 1.30 p. m., Oct. 2, for furnishing materials and constructing a 12-in. pipe sewer in Wilbur Ave., from Marcellus to Gifford Sts., and a 15-in. pipe sewer in Wilbur Ave., from Gifford to Seymour St. in accordance with the plans and specifications of the City Engineer on file in the office of the Board of Contract and Supply.

Tonawanda, N. Y.—Bids will be received by Moss W. Simson, City Clk., until 8 p. m., Oct. 2, for constructing a storm sewer in Highland Ave., from Park Ave. to the state ditch, according to specifications on file with the City Clerk.

Corona, L. I., N. Y.—The Town Board have initiated plans for sewer construction to cost approximately $200,000.

+*Franklinsville, N. Y.—We are officially advised that the contract for constructing a sewer system was awarded on Sept. 20, to J. D. KUHN, Greenburg, Pa., at $36,748. The other bids were: Dean & Haxens, Olean, N. Y., $39,681; Anthony & Co., Altoona, Pa., $40,850; G. B. Ellwell, Wellsville, N. Y., $40,900; Kelley, Schneible & George, Rome, N. Y., $41,496; Wintermantel, Link & Cerallo, Lancaster, N. Y., $42,692; A. M. Banker, Gloversville, N. Y., $44,600; New York Sewage Disposal Co., New York, $45,184; Thomas & Bonn., Syracuse, N. Y., $46,510; F. J. Diefendorf, Erie, Pa., $55,350. Charles C. Hopkins is Consult. Engr.

+Roselle, N. J.—The contract for the Lorraine sewer extension has been awarded to LOUIS JACQUES, 339 Pearl St., Elizabeth, N. J., at $18,224. The other bids were: T. Foster Callahan, $20,467; Craig & Harrison, $18,475.

Pittsburgh, Pa.—See item under Streets and Roads.

+*Altoona, Pa.—Bids for constructing the sewer to divert Ginter's Run from its present channel, requiring about 2,000 ft. of reinforced-concrete sewer, have been received as follows: FOGEL & CO., Hollidaysburg, Pa., (awarded contract), sewer per lin ft., $6.63; intake, $372; outlet, $315; sanitary sewer, $1,270; grade inlets, each $26.50; total, $14,925; Saupp & Herr, $15,916; Bennett & Smith, $18,033; Murphy & Appleby, $18,697; A. L. Anderson & Bro., $28,655. Noted Sept. 7.

Everson, Pa.—Bids will be received by the Borough Clerk until 1 p. m., Oct. 2, for constructing 11,300 ft. of 8-in., 2,760 ft. 10-in., 2,260 ft. 12-in., and 250 ft. 15-in. sewer. Plans and specifications may be seen at the office of J. B. Hogg, Boro. Engr., Second National Bank Bldg., Connellsville, Pa.

Scranton, Pa.—An ordinance has been passed for constructing various sewers. The cost is estimated at $54,000. William Scheink is City Engr.

***Reading, Pa.**—We are officially advised that bids were received on Sept. 20, by Lincoln S. Ramsey, City Clk., as follows: for constructing a concrete storm sewer on Franklin St., between the canal of the Schuylkill Navigation Co. and Sixth St.; D. M. Rosser, Kingston, Pa., $41,890; Whiting-Turner Construction Co., Baltimore, Md., $48,071; Fehr & O'Rourke, Reading, $40,413; Reading Contracting Co., $42,884; for constructing the Rose Valley concrete storm sewer, Reading Contracting Co., $37,547; Whiting-Turner Construction Co., Baltimore, $45,229; Fehr & O'Rourke, Reading, $36,839; D. M. Rosser, Kingston, $55,709; Monroe Paving Co., Philadelphia, $40,206. Edmund B. Ulrich is City Engr. Noted Sept. 7.

✚**Baltimore, Md.**—The contract for the construction of the high level interceptor sewer has been awarded to the W. H. & C. F. THOMPSON CO., Baltimore, at $95,733. The interceptor will be built in the neighborhood of Charles and Read Sts.

Baltimore, Md.—The Sewerage Commission has approved specifications for the second section of three tube drains to be laid in bed of Jones Falls extending from Center St. to Union Station. The plans provide for a tunnel from Guilford Ave. and Chase St. to Union Station. Rock from the tunnel work will be used in the construction of reinforced conduits south of Guilford Ave. and Chase St. Estimated cost, $800,000 to $900,000. Calvin W. Hendrick is Ch. Engr. Sewerage Comn.

Birmingham, Ala.—Bids will be received about Oct. 15 for constructing 8 to 15-in. pipe sewers. Estimated cost, $20,000. M. Nicholson is City Engr.

Union Springs, Ala.—Wilbur Hill, Gadsden, Ala., has been employed by the city of Union Springs as supervising engineer for the construction of a sewer system. Estimated cost, $45,000.

Lexington, Miss.—Bids will be received by the Mayor and Board of Aldermen, until Oct. 18, for constructing a system of sewers comprising about 5½ miles of 6 to 12-in. pipe sewers. Plans and specifications are on file with W. G. Kirkpatrick, Engr., Jackson, Miss.

✚**Lake Charles, La.**—Contracts for constructing a sewer system were awarded on Sept. 18 by the Municipal Sewerage Board as follows: General construction work, SOUTHERN ASPHALT & CONSTRUCTION CO., $98,960; septic tanks, KELLY, JONES & ALLEN CO., Opelousas, La., $18,693; castings, pumps and engines, A. M. LOCKETT CO., New Orleans, $3,770. The work includes 27 miles of pipe sewers, four reinforced-concrete tanks, pumping station, two centrifugal pumps, two motors, or two gasoline engines. Noted Sept. 14.

Opelousas, La.—Walter G. Kirkpatrick, Jackson, Miss., has been employed by the city of Opelousas to prepare plans for a system of house sewers estimated at $40,000.

Minster, Ohio.—Bids will be received by the Village Council until noon, Oct. 13, for constructing a sewer on Fourth St. J. H. Laufersweiler is Vil. Clk.

Alliance, Ohio.—Bids will be received by the Board of Public Service, D. W. Armstrong, Dir., until Oct. 5, for furnishing and installing duplicate pumping equipment having a capacity of 700 gallons of raw sewage per min. for each unit, against a gross pressure of 12 lbs. with a suction lift of 10 ft.

Canton, Ohio.—Bids will be received by Ray F. Herbert, Dir. Pub. Ser., until Sept. 28, for furnishing material and constructing sewers in various streets. P. H. Weber is City Engr.

Cincinnati, Ohio.—Bids will be received by the Board of Public Service, Jos. A. Cline, Acting Clk., until Oct. 2 for constructing main and lateral sewers and drains in Wardall, Epworth and Feltz Aves.

Dayton, Ohio.—Bids will be received by J. C. Ely, Dir. Pub. Ser., until Sept. 30, for constructing sanitary sewers in about 42 streets and alleys, and until Oct. 2 for sanitary sewers in Ohio, Light, Grand and Chapel Sts.

Vincennes, Ind.—The City Council has granted a franchise to the Vincennes Sewer Co., capitalized by Chicago capitalists to construct and operate a sewer system to be maintained and operated at a stated rental for 25 years, when it is to become the property of the city. The contract for construction has been awarded to R. W. LEYBE, of Chicago. The work must be completed in 18 months. Estimated cost, $300,000.

Geneva, Ill.—Bids will be received by A. L. Stemple, City Clk., about Oct. 15, for the construction of a sewer system. H. L. Wells, Geneva, is Engr. Estimated cost, $82,000.

✚***Rockford, Ill.**—Bids for sewer construction in the First Ward were received on Sept. 19 as follows: G. Maffioli, Rockford, $32,055; F. E. Kaminski, Watertown, Wis., $30,507; MULHOLLAND, KUEHN & CO., Kaukauna, Wis., $29,286 (awarded contract); Robert Nelson, Racine, $31,830; E. R. Harding Co., Racine, $30,108; W. Turner Improvement Co., Des Moines, Iowa, $31,313. Noted Sept. 14.

***Hammond, Ill.**—Bids will be received by the Board of Local Improvements until 2 p. m., Oct. 3, for constructing an underground system of drainage, estimated at $4,238. W. J. Day, Bement, Ill., is Engr.

Milwaukee, Wis.—Bids for constructing house drain and water service connection on Mitchell St., from Eighth to Muskego Aves., are being received by Harry E. Briggs, Comr. Pub. Wks.

Des Moines, Iowa.—A contract has been awarded to the GEORGE M. KING CONSTRUCTION CO. at $1.03 per lin. ft. for constructing the High St. pipe sewer, and to J. L. HANSMAN, at 73 cts. per lin. ft., for the 42d St. pipe sewer.

Mason City, Iowa.—Bids will be received by the City Council until Oct. 9, for constructing two sewage disposal plants. J. H. McEwen is City Clk.

✚**Avoca, Iowa.**—The contract for constructing a sewer system has been awarded to C. H. CAMOY, Harlan, Iowa, at $11,520. Noted Sept. 7.

✚**Dubuque, Iowa.**—The contract for constructing a sanitary sewer on Mt. Pleasant Ave. has been awarded to T. J. HASSETT, at 75 cts. per lin. ft. for sewers and $40 each for manholes.

Duluth, Minn.—Bids will be received by the Board of Public Works until 10 a. m., Sept. 29, for the construction of storm sewers in various streets.

✚**Columbus, Kan.**—A contract for constructing about 15 miles of sanitary vitrified pipe sewers from 8 to 15 ins. in diameter, and sewage disposal works, has been awarded to KOCH & KOCH, Joplin, Mo., at $45,000.

✚**Great Falls, Mont.**—Press reports state that a contract for constructing sewers in various streets has been awarded to F. E. EVANS at $13,124.

✚**Missoula, Mont.**—A contract for constructing storm sewers in various streets was awarded on Sept. 12 to the JAMES KENNEDY CONSTRUCTION CO., Salt Lake City, Utah, at $48,653.

✚**Montgomery City, Mo.**—We are officially advised that the contract for constructing 5,500 ft. 8-in. vitrified clay pipe sanitary sewer, two flush tanks, two septic tanks, twelve manholes, two drop manholes and two lamp holes was awarded on Sept. 18 to WM. McCLARKEN, St. Louis, Mo., at $5,500. Noted Sept. 14.

St. Louis, Mo.—Bids will be received by the city until noon, Oct. 6, for constructing the Rock Creek Joint District sewer, according to plans and specifications on file with the Board of Public Improvements.

Denver, Colo.—Plans and estimates are being prepared at the office of the City Engineer for a storm sewer system, estimated to cost approximately $2,500,000. The area to be covered is about nine sq. miles.

Klamath Falls, Ore.—Bids will be received by T. F. Nicholas, Police Judge, until 8 p. m., Oct. 2, for furnishing and

✚**Coranado, Cal.**—The City Trustees have awarded a contract for sewer conlaying 16,124 ft. of sewers, according to plans on file with D. J. Zumwalt, City Engr.

struction to WATSON & SPICER, Los Angeles, at $26,587. C. H. Julian, San Diego, submitted a bid of $27,492.

GARBAGE DISPOSAL.

Newport, R. I.—Bids were received as follows on Sept. 23 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for moving a boathouse and constructing a garbage crematory at the Naval Station, Newport: Moving building, Item (1) using concrete piles; Item (2) using wood piles; (3) price per pile for changes in number of concrete piles; (4) price per wood pile for changes; (5) price per cu. yd. for concrete additional. Sole bidder, Darling & Slade, Newport, R. I., Item (1) $4,250, (2) $3,950, (3) $20, (4) $10, (5) $9. Morse Bulger Destructor Co., 39 Cortlandt St., New York, $2,850; Jarvis Engineering Co., 63 Oliver St., Boston, Mass., $3,440; alternate, $2,975.

Columbus, Ga.—The Health Officer has recommended the construction of a garbage crematory. Estimated cost, $80,000.

Lampasas, Tex.—The City Council has under consideration the instanation of a sanitary sewage disposal plant and a garbage crematory.

STREETS AND ROADS.

*(*Denotes that this work is advertised in Engineering News.)*

✚**Ashburnham, Mass.**—The contract for building a state highway has been awarded to F. J. MAGNE, West Newton, at $7,831. Other bids were: R. F. Hudson, Wilmington, $7,923; M. L. Camarco, Boston, $8,809; J. A. Gakey, Medford, $8,865; C. E. Horne, Milbury, $8,924. Harold Parker is Chn. Mass. Highway Comn.

Boston, Mass.—Bids will be received by the Public Works Department until Sept. 29 for constructing a macadam roadway in Johnston Road, Dorchester. Louis K. Rourke is Comr. of Pub. Wks.

✚**Boston, Mass.**—The contract for constructing a tar macadam roadway in Bradfield Ave. has been awarded to the WEST ROXBURY TRAP ROCK CO. at $9,048. Other bids were John Kelly Co., $9,436; Wm. J. Rafferty, $9,538; John McCourt & Co., 09,900; Thos. F. Minton, $10,078. Louis K. Rourke is Comr. of Pub. Wks.

✚**Taunton, Mass.**—The Committee on Streets and Bridges has awarded the contract for constructing a state highway on Broadway to L. H. Callan, Bristol, R. I., at $5,737.

✚**Hartford, Conn.**—The contract for the construction of 1,240 lin. ft. macadam-telford road in the town of Old Lyme, bids for which were opened Sept. 21, has been awarded to F. ARRIGONI & BRO., Middletown, Conn., at $2.97 per lin. ft. for macadam-telford and $1.50 per lin. ft. for rubble drain. Jones & Porcaro, Willimantic, Conn., were the only other bidders at $4.50 and $1.

The contract for the construction of 5,264 lin. ft. macadam-telford road in the town of East Haddam has been awarded to FRANK ARRIGONI & BRO., Middletown, Conn., at $1.90 per lin. ft. for macadam, $2.32 per lin. ft. for telford, 99 cts. per lin. ft. for rubble drain, 45 cts. per sq. yd. for cobble gutters, and $5.50 per cu. yd. for masonry walling.

The contract for the construction of 5,800 lin. ft. of macadam-telford road in the town of Saybrook has been awarded to TONY LEO., Thompson, Conn., at $2.05 per lin. ft. for macadam, $2.40 for telford, 99 cts. per lin. ft. for rubble drain, 45 cts. per sq. yd. for cobble gutters and $5.50 per cu. yd. for masonry walling.

✚**Hartford, Conn.**—The contract for installing curb on the boulevard east of Sisson Ave. has been awarded by the Board of Contract and Supply to the HARTFORD PAVING & CONSTRUCTION CO., at 83 cts. per lin. ft. for straight curb and $1.10 for curved.

New York, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., Oct. 4, for gradi'ng and constructing cement sidewalks on various streets.

Bids will be received by Charles B. Stover, Pres. Dept. of Parks, until 3 p. m., Oct. 5, for furnishing all labor and materials for the improvement of the rock cut on the Broadway side of Van Cortlandt Park, in the Borough of The Bronx.

Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., Oct. 3, for widening the roadways and repaving various streets.

New York, N. Y.—Bids will be received by Chas. B. Stover, Pres. Dept. of Parks, until 3 p. m., Oct. 5, for furnishing all the labor and materials required for rebuilding and widening City Island Road, from Bartow Station to City Island Bridge, in the Borough of the Bronx.

New York, N. Y.—Bids will be received until 2 p. m., Oct. 9, by George McAneny, Pres. Boro. Manhattan, for regulating and repaving with wood block pavement on a concrete foundation the roadway of Delancey St., from a point 83 ft. west of west curb line of Chrystie St. to east side Bowery.

Syracuse, N. Y.—Bids will be received at the office of the Board of Contract and Supply until 1.30 p. m., Oct. 2, for furnishing materials and constructing a stone, cement, asphalt or brick sidewalk, 5 ft. wide, on the south side of Tompkins St., from Milton to Avery Ave., in accordance with the plans and specifications of the City Engineer on file in office of the Board of Contract and Supply. George J. Metz is City Clk.

Troy, N. Y.—Bids will be received by James M. Riley, Secy. Bd. Contract and Supply, until Sept. 29, for paving, regulating, curbing and improving Elm Grove Ave., from Pawling to Corning Aves.

Watertown, N. Y.—The Board of Public Works has asked the Common Council for an appropriation of $90,511 to carry on work planned for next year. Of this, $31,400 is intended for paving and other street improvements.

✚**White Plains, N. Y.**—The Board of Trustees has awarded contracts as follows: to E. L. ERBECK, 71 Martine Ave., improving Orawaupum St., at $1,581; Ridgeview Ave., $310; Spring St., $5,444; Robertson Ave., $6,498; Waller Ave., $1,863 for laying sidewalks, curbs and gutters in Ridgeview Ave., $393; Orawaupum St., $852; Spring St., $1,998; Waller Ave., $902; for walks, curbs, gutter and storm water drain on Greene Pl., $4,033; for sidewalks, curbs and gutters on Waldo Ave., $4,970; to BENJAMIN MORANO, for improving Walworth Ave., $2,984; to the CONNECTICUT HASSAN PAVEMENT CO., improving Lake St., $8,363. Hassan pavement is to be used on Lake St., brick on Spring St., and macadam on the rest.

Haddonfield, N. J.—Bids will be recived by Allen Clymer, Boro. Clk., until Oct. 2, for laying about 50,000 lin. ft. of stone and cement curb. Sartori & Remington, Temple Bldg., Camden, N. J., are Engrs.

Jersey City, N. J.—Bids will be received by the Board of Street and Water Commissioners until 2 p. m., Oct. 2, for repaving and widening the carriageway of Summit Ave., from Five Corners to Paterson Ave., by taking 12 ins. off each sidewalk, excepting where present width of sidewalk will not permit, in accordance with specifications on file in the office of Edward B. See, Clk. of Bd.

✚**Newark, N. J.**—The contract for paving 16th Ave. has been awarded to the NEWARK PAVING CO., at $10,736.

Newark, N. J.—Bids will be received by the Board of Street and Water Commissioners until 3.15 p. m., Oct. 5, for paving various streets.

***Carbondale, Pa.**—Bids will be received by H. G. Likeley, City Clk., until 8 p. m., Oct. 2, for paving Pike St., from South Main to Sand St., with best quality vitrified paving brick, according to plans and specifications on file in the office of the City Engr.

*✚**Dorranceton, Pa.**—We are officially advised that bids for paving Butler St. were received on Sept. 18, as follows: UNITED STATES WOOD PRESERVING CO., 165 Broadway, New York, $8,356 (awarded contract); D. M. Rosser Engineering & Contracting [illegible] Kingston, Pa., $9,810. Young & [illegible]ermute, Wilkes-Barre, are Boro. [illegible]

✚**Harrisburg, Pa.**—Press [illegible]ts state that contracts were awa[illegible] by the State Highway Commission [illegible] Sept. 19, as follows: Two sections [illegible] Lewiston Narrows Road, to J. [illegible]RANCIS, Punxatawney, at $120,95[illegible]nd the UNITED ICE & COAL CO. [illegible]risburg, at $99,048; two sections [illegible] the National Pike in Fayette a[illegible]omerset Counties, to REED & PA[illegible]N, Curwensville, at $67,458 and [illegible]129; one section of the National Pik[illegible] Fayette County, to CHAS. T. EAST[illegible] Yardley, at $41,373. Noted Sep[illegible]

Philadelphia, Pa.—Bids [illegible] be received by the Departmen[illegible] Public Works, Harry A. Mackey [illegible] until noon, Sept. 29, for the foll[illegible]g work: Schedule A, for resurfacing [illegible]ts with refined asphalt, amount [illegible]priated $30,000; Schedule B, fo[illegible]epairing county roads with bro[illegible] stone, amount appropriated $10[illegible] Schedule C, for repaving s[illegible]s with refined asphalt; Schedule D[illegible] repaving streets with vitrified [illegible] clay or shale blocks; Schedule E, f[illegible]epaving streets with granite blocks. [illegible]nut appropriated for repaving st[illegible]s as per Schedules C D and E is $50[illegible]; Schedule F, for paving streets wi[illegible] macadam with vitrified brick gutters. [illegible]lans and specifications are on file wi[illegible] the Bureau of Highways.

✚**Pittsburgh, Pa.**—We are officially advised that the contract for improving .9 mile of Nobles' Lane was awarded on Sept. 20 to the THOMAS CRONIN CO., South 17th and Muriel Sts., Pittsburgh, at 59 cts. per cu. yd. for excavation, and $2.28 per sq. yd. for brick block paving. Noted Sept. 7.

Bids will be received by the City Controller until 10 a. m., Oct. 3, for improvements, to include 35,000 cu. yds of embankment, 8,710 sq. yds asphalt block pavement, 8,200 lin. ft concrete curb, 80,000 sq. ft. concrete sidewalk, 4,400 lin. ft. 48 and 52-ft. concrete sewer, 9,250 lin. ft. 6 to 15-ft. terra cotta pipe sewer, and 7,000 lin. ft. 6 to 12-in. water pipe. William A. Magee is Mayor and Joseph G. Armstrong, Dir. Pub. Wks.

Wilkes-Barre, Pa.—Bids will be received by Fred H. Gates, City Clerk, until noon, Oct. 9, for grading, curbing and paving North Main St., between Culp Ave. and the city line, with sheet asphalt, vitrified brick and Belgian block, and for curbing with stone or concrete, in accordance with plans and specifications on file in the office of the City Engineer.

Cumberland, Md.—The Cumberland Heights Improvement Co., R. D. Johnson, Pres., has purchased 65 acres and will develop a residential suburb. The tract is to be graded and driveways and avenues constructed. About $50,000 will be expended in the improvement.

Upper Marlboro, Md.—Bids will be received by the Board of Commissioners of Prince Georges County until noon, Oct. 3, for improving the Queen Chapel Road. The work to be done includes the grading and macadamizing of about one mile of road, to be built according to the plans and specifications on file at the office of the County Commissioners at Upper Marlboro. Henry St. J. Briscoe is Clk. Comrs.

Laurinburg, N. C.—Bonds for $30,000 have been voted by Laurel Hill Township for road construction. D. Z. Hardin, Laurinburg, is Comr.

Jackson, Miss.—Bids will be received by John N. McLeod, Street Comr., until Oct. 3 for paving West Capitol St. with bitulithic, wood block, sheet asphalt, granitoid and other kinds of bituminous pavement.

New Orleans, La.—Bids will be received by the Highway Department of the Board of State Engineers, until noon, Oct. 10, for constructing the following roads: Lake Providence to Arkansas Line, about 17 miles of earth road; Lake Providence to Madison Parish Line, about 21 miles of earth road; Winnsboro Highways, about 12 miles of earth roads radiating from Winnsboro, Franklin Parish. Gervais Lombard is Act. State Highway Engr.

Ashland, Ohio.—Bids will be received at the office of the Commissioners of Ashland County until 10 a. m., Sept. 30, for grading and macadamizing 1.04 miles of road in Sullivan Township; estimated cost, $6,320; and for 1.6 miles of road in Sullivan Township; estimated cost, $9,547. Plans and specifications are on file with the Commissioners, and with the State Highway Department. James R. Marker is State Highway Comr.

Bryan, Ohio.—Bids will be received at the office of the Commissioners of Williams County, until 10 a. m., Oct. 3, for grading and macadamizing 1.52 miles of road in Pulaski Township. Specifications, plans and profiles are on file in the office of the County Commissioners, and at the State Highway Department. Estimated cost of bituminous macadam, $14,078; waterbound macadam, $12,585.

Cincinnati, Ohio.—Bids will be received by the Board of Commissioners of Hamilton County until noon, Oct. 6, for improving Tanner Ave., from Foley Road to the city line.

Cleveland, Ohio.—Bids will be received at the office of A. B. Lea, Dir. Pub. Ser., until noon, Oct. 5, for grading, draining, curbing, paving with brick and improving East 37th St., from Kelley to Perkins Aves., and West 49th St., from Detroit to Hermann Ave., and for repaving with dressed block medina stone within the street car tracks on West 25th St., from Trowbridge to Bradwell Aves.

Dayton, Ohio.—Bids will be received by J. C. Ely, Dir. Pub. Serv., until Oct. 2, for grading and paving sidewalks, setting combined curb and gutter and graveling roadway on Heller St., grading and graveling roadway on Lowell St., and grading and paving sidewalks on Puterbaugh and Lowell Sts.

+Logan, Ohio.—The contract for improving the Logan and Laurelville Road has been awarded to JAMES PETRIE, Logan, at $5,300.

New Lexington, Ohio.—Bids were received on Sept. 16 by the Commissioners of Perry County for the improvement of the Somerset Road as follows: R. J. Flautt, Axline, $8,894; S. C. Martin & H. E. Hunt, Jackson, $9,-100; H. C. Becker & W. R. Wilson, Athens, $9,200; Bock & Henderson, Coshocton, $9,142.

On the same date bids were opened for the improvement of the New Lexington and Corning Road as follows: S. G. Martin & H. E. Hunt, Jackson, $15,625; Kapps Bros., Portsmouth, $15,-700; H. C. Becker & W. R. Wilson, Athens, $15,957. All bids were rejected and the work on both roads will be re-advertised.

Pleasant Ridge, Ohio.—Bids will be received by H. B. Hayden, Vil. Clk., until noon, Oct. 18, for improving Carthage Road.

Ravenna, Ohio.—Bids will be received at the office of the Commissioners of Portage County until 9 a. m., Oct. 6, for grading and paving with brick 7.84 miles of road in Ravenna, Rootstown and Randolph Townships. Specifications, plans and profiles on file in the office of the County Commissioners and at the State Highway Department. Estimated cost, Section 1, $61,354; Section 2, $40,938.

Steubenville, Ohio.—Bids will be received by the Director of Public Service until noon, Oct. 2, for furnishing the necessary labor and materials for constructing cement sidewalks on Oregon Ave., from McDowell Ave. to Belleview Boulevard, according to the plans and specifications on file in the office of the City Engineer.

+Waverly, Ohio.—The County Commissioners have awarded a contract for constructing a mile of concrete and macadam pike leading from the Poor Farm to the Prairie school house, to KELLY DURHAM, at $7,000.

Indiana Road Improvement.—Bids will be received as follows for highway improvement in Indiana, Oct. 6.:

Indianapolis, by the Board of Public Works until 10 a. m., for paving various streets.

Crown Point, by the Board of Commissioners of Lake County until noon for constructing three gravel roads. Charles A. Johnson is County Audr. Oct. 7.

Washington, by the Board of Commissioners of Daviss County until 10 a. m., for constructing gravel roads in Elmore and Washington Townships. Thomas Nugent is County Audr. Oct. 13.

Winchester, by the Board of Commissioners of Randolph County until 10 a. m., for constructing two gravel and four macadam roads. Henry F. Wood is County Audr.

CONTRACTS AWARDED.

+Columbus.—A gravel road to JOSEPH T. MEREDITH, at $20,500.

+Covington.—A gravel road to ELBERT E. McKEE, at $7,460.

+Martinsville.—Paving, to GAGEBY & CUNNINGHAM, Linton, Ind., at $44,000.

+Newport.—Gravel roads: the Dick road to JESTER BROS., at $3,098; the Hillsdale and Montezuma road to INGRAM & CO., at $9,946; Rangeline road to GEORGE W. SYKES, at $7,845.

Grand Rapids, Mich.—Bids for paving have been received by the Board of Public Works as follows: Prescott St., Vanderweele Bros., $17,272; Richard Picket, $17,935; Hilding & Whiting, $17,402; McDermitt & Cooper, $16,720, Winsor Ave., Meyers & Van Oeveren, $7,049; Martin Den Boer, .$7,710; Richard Pichett, $7,935; Kloote & Vanderveen, $7,265.

Brookfield, Ill.—Bids will be received by the Board of Local Improvements until 8 p. m., Oct. 5, for constructing a system of sidewalks. J. A. Dreher is Secy. Bd. Plans are on file with A. L. Porter, C. E., of Fairbanks, Morse & Co., Chicago.

Chicago, Ill.—Bids will be received by the Trustees of the Sanitary District of Chicago, I. J. Bryan, Clk., until Sept. 28, for repairing street pavements for the Sanitary District for the term ending Dec. 31, 1911.

+Marshalltown, Iowa.—A contract for paving six blocks of Franklin St. has been awarded to M. FORD, Cedar Rapids.

Hastings, Minn.—Bids will be received by P. A. Hoffman, County Audr., until Oct. 6, for grading and improving State Road No. 7 in Mendota Township.

+Minneapolis, Minn.—We are officially advised that bids for improving Superior Boulevard were received on Sept. 18, as follows: G. F. O'NEIL and J. A. McLEOD, $33,675 (awarded contract); George Turnham, $58,000.

Duluth, Minn.—Bids will be received by the Board of Public Works until 10 a. m., Sept. 29, for grading and otherwise improving Regent St., according to plans and specifications on file in the office of the Board. Olof G. Olson is Pres.

Yankton, S. Dak.—Bids will be received by the Board of Commissioners of Yankton County, until 2 p. m., Oct. 3, for grading a section of highway. Julius Engel is County Audr.

Fulton, Mo.—Bonds for $100,000 have been voted for the construction of rock and gravel roads in Calaway County.

Tulleta, Tex.—The Commissioners' Court of Bee County has ordered the Road Superintendent to open a road from Beeville through Normanna, Tuleta and Pettus to the Karnes County line.

Galveston, Tex.—Bids will be received by John M. Murch, County Audr., until 11 a. m., Oct. 2, for surfacing and shelling the county roadway over the earth part of the causeway. There will be required approximately 12,000 cu. yds. of mudshell, in addition to the grading, all to be done in accordance with specifications on file in the office of the County Auditor.

Salt Lake City, Utah.—Bids will be received by the Board of Public Works until 8 p. m., Oct. 6, for constructing cement sidewalks in sidewalk extension No. 156, on Second North, Third North, Wall and Center Sts., according to plans on file in the office of the City Engineer.

+Portland, Ore.—The contract for the improvement of 26th St. has been awarded to the STAR SAND CO., Portland, at $24,482. The street is to be graded and paved with tarvia and cement.

Colfax, Wash.—Bids will be received by B. F. Mauring, Deputy County Audr., until Oct. 2, for constructing 5,600 ft. of the Colfax and Palousa City Road.

+Hoquiam, Wash.—The contract for graveling Simpson Ave., from 20th to 28th St., has been awarded to the G. & N. CONSTRUCTION CO., at $5,648.

+Seattle, Wash.—The contract for paving Queen Anne Boulevard, Division No. 3, has been awarded to the BARBER ASPHALT PAVING CO., at $17,-177.

+San Francisco, Cal.—The Board of Public Works has awarded to the CITY STREET IMPROVEMENT CO. the contract for paving Kearny St., from California to Sacramento St., at $13,389, and to the BARBER ASPHALT CO. the contract for paving California St., from Sansome to Battery St., at $13,988.

Santa Barbara, Cal.—Bids will be received by the Board of Supervisors until 10 a. m., Oct. 2, for furnishing labor and material necessary for grading about 11.14 miles of the Permanent Road Division of Goleta. C. A. Hunt is County Clk.

Auburn, Cal.—Bids will be received by Marshall Z. Lowell, Clk. Bd. of Superv., until 10 a. m., Oct. 3, for the construction of a road on both sides of the American River leading to the new bridge across American River.

Madera, Cal.—W. J. Keays, City Engr., has prepared plans and specifications for paving with asphalt on concrete base 26 blocks of streets in Madera. The estimated cost of the work, including curbs and gutters, is $113,-227.

Los Angeles, Cal.—Bids will be received by the Board of Supervisors until 2 p. m., Oct. 2, for grading, oiling and constructing cement curb on certain portions of Central Ave., Dryden St. and Stooker St., in Road Improvement District No. 4. H. J. Lelande is County Clk.

+Santa Barbara, Cal.—A. L. PENDOLA has been awarded a contract at $21,700 for improving Victoria St., between State and Garden Sts., at 14 cts. per sq. ft. for paving, $1.25½ for stone gutters and $1,405 for culverts.

Stockton, Cal.—Bids for improving the Maripcsa Road have been received by the Board of Supervisors, as follows: Cotton Bros. & Co., $64,284; Cyrus Moreing & Sons, $69,544.

+Yreka, Cal.—Bide for constructing the Cape Horn Road have been received by the Board of Supervisors as follows: G. A. Reichman & W. H. Young, $8,420; Ross Construction Co., Sacramento, $8,-387; T. F. Magoffey, $7,500; V. T. Dorris, $8,000; EMERSON J. FOWLER, Henley, $6,450 (awarded contract).

+Ottawa, Ont.—The UNION CONSTRUCTION CO., Ottawa, has been awarded the contract for paving York St. at $23,739; Cumberland St. at $17,-993. The OTTAWA CONSTRUCTION CO. was awarded the contract for pavements on Wellington St. at $13,-000 and $7,990.

MANUFACTURING PLANTS.

(+*Denotes a contract awarded.*)

Augusta, Me.—Announcement is made of the incorporation of the Summers Linen Co. with a capital of $500,000. L. A. Burleigh, E. L. McLean, M. M. Spinney, A. P. Norton, M. D. Yeaton, L. J. Coleman, Augusta; M. E. Leavitt, Winthrop, are the promoters.

+Northampton, Mass.—MYRON C. BAILEY has been awarded the contract for the laundry building at the State Hospital for the Insane. It will be of brick, two stories high, 61 × 116 ft., of mill construction. Ellsworth & Howes, of Holyoke, Mass., are the Archs.

Boston, Mass.—A 6-story reinforced-concrete cigar factory is about to be built on Columbus Ave. for Waitt & Bond, 67 Endicott St. Densmore & Le Clear, 88 Broad St., are Archs. and Engrs.

+Chicopee Falls, Mass.—GEORGE H. FUGERE, general contractor for the new buildings at the plant of the Lamb Knitting Machine Co., has awarded subcontracts as follows: Mason work, JOHN T. SULLIVAN; steel work, H. F. ELWELL & CO.; roofing, ALEXANDER GRANT & SON. The buildings are of brick, heavy mill construction, with steam heat and an elevator, one is 50 × 100 ft., five stories high, and the other 60 × 168 ft, two stories high.

It is reported that the Gaylord-Kendall Co. is about to erect a large bakery on Front St.

East Boston, Mass.—A factory building of reinforced concrete, five stories high, 200 × 60 ft., is to be built for the East Boston Co., 19 Congress St., Boston. Francis W. Dean, 53 State St., Boston, is the Arch. and Engr.

North Adams, Mass.—The Hoosac Cotton Mills Co. are planning an $800,-000 addition to their plant on Union St. One building is to be 280 ft. long by 180 ft. wide and three stories high, and a new spinning mill is to be 382 ft. long and 155 ft. wide and built east of the present Eclipse Mill. Noted Sept. 7.

Lowell, Mass.—Plans and specifications are being prepared by Lockwood, Greene & Co., Boston, for a 4-story reinforced-concrete machine shop, 150 by 50 ft. for the Lamson Consolidated Store Service Co.'s plant at Lowell, Mass.

A 4-story mill is to be built by the Hamilton Manufacturing Co. near Jackson St., to be 268 × 135 ft., to cost $135,000.

+Holyoke, Mass.—CASPER RANGER has been awarded the general contract and JONES & MARRA the contract for the cut stone for the 2-story addition to the plant of B. F. Perkins & Sons on Crescent St. The building will be of brick, 100 × 200 ft.

Bradford, R. I.—The contract for the erection of the second section of the plant of the Bradford Dyers' Association has been awarded to R. A. SHERMAN'S SONS CO., of Westerly, R. I. The building will be 100 × 250 ft., of brick and mill construction.

New Haven, Conn.—Sargent & Co., New Haven, Conn., manufacturers of hardware, will enlarge one of their factory buildings. The building is 32 × 128 ft. and two stories high.

Rochester, N. Y.—Contracts will be awarded soon by the Luitwieler Pumping Engine Co., 123 Ames St., Rochester, N. Y., for the enlargement to a factory wing. The addition will be 60 × 135 ft., two stories high, of brick, steel and concrete construction.

The Shipwell Wardrobe Case Co., Rochester, N. Y., has been incorporated with a capital stock of $100,000 to manufacture shipping cases for clothing, etc. J. A. Moss, G. A. Brayer and J. C. Freeman, Rochester, are the incorporators.

Buffalo, N. Y.—The Pratt & Letchworth Co., Buffalo, N. Y., is arranging to construct an 80-ft. extension to its main steel building. No additional equipment will be required.

Elmira, N. Y.—The Castle Lamp Co., Amesbury, Mass., will, it is reported, move its plant to Elmira. The company is constructing a plant there.

North Tonawanda, N. Y.—The North Tonawanda Musical Instrument Co., North Tonawanda, N. Y., will erect a plant for the manufacture of mechanical and automatic musical instruments. The company is not decided as to its machinery equipment.

Harrisburg, Pa.—The Callister Manufacturing Co., which was recently incorporated to engage in the manufacture of the Case railroad tie-plate and safety clamping bolt rail fastening, under patents of Homer W. Case, will probably construct a plant.

Baltimore, Md.—J. E. Aldred, Pres. of the Gas & Electric Co., is interested in the erection of power and factory building, seven stories, to cost about $200,000, on East Preston St. P. O. Keilholtz, Engineer, Continental Bldg.; Theo. W. Pietsch, American Bldg., Consult. Arch.

Swift & Co., Chicago, Ill., awarded contract to the CONSOLIDATED ENGINEERING CO., Emerson Tower, Baltimore, Md., to erect a 3-story reinforced-concrete warehouse, to be equipped for refrigerating and cold storage.

The Monumental Brewing Co. has purchased property at 3309-3313 East Lombard St. and will erect a brewery and garage, 44 × 100 ft. The building will be of brick construction, trimmed with stone, steam heat, and will cost $150,000. Plans have been prepared by Otto C. Wolff, Philadelphia, Pa.

Loreley, Md.—The Loreley Distilling Co. will build a distillery on Gunpowder River, one mile from Loreley. The site comprises about 50 acres. Moses Kaufman, 806 Newington Ave., Baltimore, Md., and others are incorporators.

Richmond, Va.—The Times-Dispatch Co. awarded the contract to JOHN T. WILSON CO., of Richmond, Va., at $90,-000, to erect building for printing plant and offices, fireproof, 79 × 82 ft.; four stories and basement, or 69 ft. above curb line; brick, steel and concrete. Contract is exclusive of lighting and heating, electric light. Plans by Ferguson, Calrow & Taylor, of Richmond.

Suffolk, Va.—Dixie Guano Co., A. R. Morris, Pres., will erect a fertilizer factory, 150 × 200 ft., ordinary construction; daily capacity, 150 tons of fertilizer. Machinery order placed.

Augusta, Ga.—The Chesnee Mills of Chesnee have been incorporated with a capital stock of $400,000. The company will erect a plant.

Abbeville, La.—The Abbeville Sugar Co. has under consideration plans for the erection of a sugar mill here.

Mermentau, La.—G. W. Caldwell, of this place, and associates have taken steps to erect here a large sugar refinery.

Morristown, Tenn.—J. E. Burke and W. E. Daily, Morristown, Tenn., will erect a garage and automobile repair shop.

Lebanon, Ky.—R. G. Goodin and Taylor Estes will erect a plant for the manufacture of brick and drain tile.

Alliance, Ohio.—An ice manufacturing plant will be erected in Alliance. Friedman & Scanlon with others are interested.

Cincinnati, Ohio.—The erection of an addition is contemplated by the Rahn-Larmon Co., Cincinnati, to its plant on Spring Grove Ave.

The Clifton Springs Distilling Co., Cincinnati, will erect a 3-story dry-house. The cost is $18,000. Special equipment will be required.

Kenton, Ohio.—The Canton Casting Co., Canton, Ohio, has been organized to manufacture radiators and castings for school desks. The company will probably establish a plant in Kenton.

Indianapolis, Ind.—The United States Motor Co. is looking for a site on which to erect an automobile factory in this city. J. W. Hayden is Gen. Mgr.

Speeds, Ind.—Plans are under consideration by the Louisville Cement Co. for enlarging their plant.

Clinton, Ind.—The Clinton Grain Co. has incorporated to build, equip and operate an elevator and flour mill. Jas. A. Curtis is Pres.

Cadillac, Mich.—L. J. Albertson, 305 West Main St., Kalamazoo, has awarded the general contract for the 2-story and basement factory and power plant, 70 × 200, for the Cadillac Chair Co., of Cadillac, Mich. General contract awarded to FRANK SHOEMAKER, Kalamazoo. Cost, $60,000.

+Detroit, Mich.—Albert Kahn and E. Wilby, Trussed Concrete Bldg., Detroit, have awarded the masonry contract for the 1-story factory addition 60 × 120 ft. for the Packard Motor Car Co., S. D. Walden, Secy., East Grand Boulevard and Belt Line R. R., to JACKSON & MAURICE, Hart and Charleroix Aves. Cost, $25,000.

Stanley F. Kadow, 988 Kinnickinnic Ave., Milwaukee, Wis., and engineers, the Vilter Manufacturing Co., 872 Clinton St., Milwaukee, are receiving figures on a 2-story and basement cold storage warehouse, 90 × 115 ft., for the Cudahy Bros. Co., Cudahy, Wis. The warehouse to be erected in Detroit.

+Spier, Rohns & Gehrke, 1325 Chamber of Commerce Bldg., Detroit, has awarded the following contracts for a bakery to be located in Congress St. West for H. L. Bowles & Co., Bowles Bldg.: Structural iron work let to WHITEHEAD & KALES, Beeches Ave. and M. C. R. R.; masonry to M. BURKHEISER, 660 Ellery St.; carpentry to A. HILD, 680 Orleans St.

+The West Side Brewing Co., 412 Howard St., Detroit, has awarded the general contract for the 2-story and basement brewery, 31 × 135 ft., to L. SCHOLL & SON, 298 Twelfth St. Cost, $25,000.

+The Department of Public Works, J. J. Haarer, 104 City Hall, are contemplating a city cresoting plant. Estimated cost, $30,000.

+Albert Kahn & E. Hilby, Trussed Concrete Bldg., Detroit, have awarded the following contracts for the 1-story and basement factory, 50 × 80 ft. and 190 × 66 ft., for the McCord Manufacturing Co., Grand Blvd. and Orleans St.: Masonry, to F. N. COOPER, 203 Granby Ave.; carpentry, to J. H. A. HAHERKORN, 380 14th Ave.; roofing, to A. F. PUDRITH, 74 Brush St. Cost, $45,000.

Albert Kahn and E. Wilby, Trussed Concrete Bldg., Detroit, have awarded the following contracts for the 1-story and basement factory, 60 × 125 ft., for the Packard Motor Car Co., S. D. Walden, Secy., East Grand Blvd. and Belt R. R.: Masonry, to HEITSCH CONSTRUCTION CO., Pontiac, Mich.; carpentry, to M. HINGH, 208 Champlain St., Detroit; roofing, to R. HUTTON & CO., 116 Fort St. East. Cost, $40,000.

Allen & Hill, 711 Gas Co. Bldg., are preparing plans for a 1-story foundry, 40 × 80 ft. for the American Brass & Iron Co., Crystal and Trombly Aves. Architects will soon take figures.

Grand Rapids, Mich.—Pierre Lindhout, 718 Ashton Bldg., is preparing plans for a 2-story factory, 50 × 100 ft., for the Silverman Bros., Canal and Sixth St. Architect will soon be ready for figures. Cost, $25,000.

Kalamazoo, Mich.—R. A. Le Roy, 122 Pratt Bldg., Kalamazoo, is preparing plans for a 1-story factory, 150 × 208 ft. Owner's name withheld. Building to be of concrete construction.

Saginaw, Mich.—The Saginaw Plate Glass Co., of Saginaw, Mich., has announced that they will start construction work on an addition to their present plant, 750 × 125 ft., the size of plant, giving them an additional floor space of 93,750 sq. ft. Building to be of reinforced-concrete construction and will cost $200,000.

Chicago, Ill.—The Vilter Manufacturing Co., Milwaukee, Wis., has purchased property near its present plant for the purpose of erecting a 207 × 120 ft. pipe shop.

The Western Steel Car & Foundry Co., Chicago, will erect several factory buildings at its Hegewisch plant. Cost, $60,000.

The Matthews-Davis Tool Co., St. Louis, Mo., will erect a factory building. The cost is $18,000. The site is located at 3724 Forrest Park Blvd.

Racine, Wis.—The Chicago, Racine & Milwaukee Transportation Co. is to erect a warehouse, 200 × 90 x 17 ft. in dimensions, to be built of wood with corrugated iron cover.

Racine, Wis.—The Badger Foundry Co. is having plans prepared for an addition doubling its capacity.

✚Sheboygan, Wis.—Sheboygan Coaster & Wagon Works have awarded the contracts for the factory building as follows: Mason work, GUENTHER & SON, $5,871; carpenter work, FRANK GEIB, $4,256, and metal work, MILWAUKEE METAL WORKS, $1,300.

St. Paul, Minn.—Articles of incorporation have been filed with the Secretary of State by the Automatic Concrete Machinery Co., with a capital of $50,000. A factory will be built for the manufacture of concrete and cement machinery. The incorporators are John Lynch, Oliver and Clarence R. Wilkinson, all of St. Paul.

✚Omaha, Neb.—The contract for a $12,000 factory building at 14th and Grace Sts. to be occupied by the Nebraska-Iowa Steel Tank Co. was let by Burd Miller, Arch., to S. S. ALCOX. The building will be 100 ft. long.

Omaha, Neb.—A 16-stall round house will be erected by the Chicago, St. Paul, Minneapolis & Omaha Branch of the Northwestern Ry.

Austin, Tex.—It is reported that Cas Gilbert, Arch. of New York, is preparing plans for an 8-story hotel building to be erected here by the estate of the late Joseph Nalle. The building will be of reinforced-concrete construction and occupy a site 138 × 170 ft. It will cost about $500,000.

Beaumont, Tex.—The St. Louis & San Benito Ry. Co. will make improvements to its property here at a cost of $400,000, according to the announcement of J. H. Elliott, of Houston, Vice-Pres. and Gen. Mgr. The terminal facilities will be enlarged, a new passenger depot erected and other improvements made.

Beaumont, Tex.—The Chamber of Commerce is promoting the establishment here of a mill to manufacture syrup from sugar cane.

Corpus Christi, Tex.—It is reported that Swift & Co., of Chicago, will erect a large cold storage plant at this place.

Bryan, Tex.—The Lawler Brothers and associates will erect a large macaroni factory here. The same interest are erecting a flour mill and installing an electric light and power plant.

Dallas, Tex.—Shepley, Rutan & Cooledge, Archs., of Boston, Mass., are preparing plans for the building of the Southern Methodist University to be erected here.

Dallas, Tex.—The Rex Steam Laundry Co. will install a new laundry plant here at a cost of about $20,000. Gus A. Amundsen, Jr., is Pres. and Gen. Mgr.

El Campo, Tex.—Dr. J. C. Chandler will establish a plant here for the manufacture of brick.

Palestine, Tex.—The Hill-Henson Manufacturing Co. will install a plant here for the manufacture of writing ink.

San Benito, Tex.—The Intermittent Vacuum Pre-Cooling Co. has been organized here with a capital of $60,000 for the purpose of installing a precooling plant. The incorporators are C. B. Rodgers, of Kingsville, Tex.; S. A. Robertson, of San Benito, and J. H. Elliott, of Houston.

Taylor, Tex.—The Cleveland Vitrified Brick Co., of Humboldt, Kan., has under consideration the establishment here of a plant for the manufacture of brick.

Waco, Tex.—The Longley Clothing Manufacturing Co. has been formed here with a capital of $22,500. The incorporators are F. M. Longley, W. V. Browning and J. W. Polly.

Roswell, New Mex.—G. A. Morris has let the contract to the TATE NORDMEYER ENGINEERING CO., of St. Louis, Mo., for the installation of an ice factory and creamery at a cost of $21,000.

MISCELLANEOUS CONTRACTS.

(**Denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and Irrigation projects, etc., will be found under Water Supply—Irrigation.

Excavation. — Shelburne Falls, Mass. —Bids will be received for about 20,000 cu. yds. of excavation, including loam, sand and gravel, suitable for small wheel-scraper or drag-scraper outfit. Apply to Fraser Brace & Co., Shelburne Falls.

Elimination of Grade Crossings.—Quincy, Mass.—The elimination of grade crossings is again being urged, following the work nearing completion in Boston by the New York, New Haven & Hartford R. R. A new bridge is about to be built at Atlantic Station, to span four tracks. Bertrand T. Wheeler is Engr. of Construction.

Comfort Station.—Hartford, Conn.—Architects have been invited to submit designs for the proposed new comfort station on or before Oct. 14. The plans may be sent to E. L. Smith, Mayor.

Trap Rock.—Hartford, Conn.—Bids will be received by the Board of Contract and Supply, Joseph Buths, Secy., until 11 a. m., Oct. 30, for furnishing crushed trap rock to the city for the five years beginning Jan. 1, 1912. Specifications may be seen at the Street Commissioners' office.

Dredging.—Bridgeport, Conn.—Bids for dredging in Bridgeport Harbor were received as follows on Sept. 21 by Capt. A. E. Waldron, Corps Engrs., U. S. A., New London, Conn: (a) price for removing about 65,000 cu. yds. in areas (a), (b) and (c); price for removing about 16,000 cu. yds. in area (d) (c), totals; Maritime Dredging Co., (a) 15.9 cts., (b) 17.9 cts., (c) $13,278; P. Sanford Ross, Inc., (a) 16.5 cts., (b) 19.5 cts., (c) $13,927; Taylor Dredging Co., (a) 16 cts., (b) .16 cts., (c) $13,040; Randerson & Miller, (a) 16 cts., (b) 16 cts., (c) $13,040; Charles N. Cole, (a) 24.5 cts., (b) 24.5 cts., (c) $19,967.

Comfort Station.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., Oct. 5, for all labor and materials required for the erection and completion of a comfort station in the Queensboro Bridge Playground, located at the southwest corner of East 60th St. and Sutton Pl., Boro. Manhattan.

✚Fire Alarm Telegraph.—New York, N. Y.—Bids were received as follows on Sept. 18 by Joseph Johnson, Fire Comr., for furnishing all labor and materials required for an extension of the underground fire-alarm telegraph system, Boro. Brooklyn: WATERBURY CO., 80 South St., New York, $83,462 (awarded contract); Safety Insulated Wire & Cable Co., 114 Liberty St., $83,995; Standard Underground Cable Co., 50 Church St., $86,793; National India Rubber Co., 30 Church St., $87,466; The Okonite Co., 253 Broadway, $106,487.

Storage Sheds.—New York, N. Y.—The following bids were opened on Sept. 14 by the Park Board, New York City, for furnishing material and erecting westerly half of the storage sheds and the west manure pit in the north meadow storage yard in Central Park: (a) all labor and material required as specified, exclusive of the electric pump; (b) furnishing and installing electric pump: Richard Carvel Co., 401 West 59th St., New York, (a) $24,200, (b) $800. Charles L. Doran Construction Co., 1015 Walton Ave., New York, (a) $23,850, (b) $800.

***Harbor Board Hearings.**—New York, N. Y.—The U. S. Harbor Line Board will give a public hearing at 1.30 a. m., Oct. 19, at 39 Whitehall St., New York, Room 708, on modification of pier and bulkhead lines around Shooters' Island, Newark Bay; and at about 2.30 p. m. on modification of pier and bulkhead lines in front of Singer Mfg. Co.'s property at Elizabethport, N. J.; also same date and place the U. S. Harbor Line Board will give public hearings at 10.30 a. m., on modifying pierhead line Gravesend Bay to provide opening for access to Coney Island Creek; and at about 11.30 a. m., on application for advancing pierhead line 100 ft. at foot of Conover St., Red Hook, Brooklyn. Interested parties are invited to attend and be heard. Col. William. T. Rossell, Corps Engrs., U. S. A., is Senior Member Bd.

Fire Protection Work.—New York, N. Y.—Bids will be received until 3 p. m., Oct. 9, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for fire protection work, etc., at Public Schools Nos. 1, 7, 20, 32 and 34, Boro. The Bronx.

✚Greenhouse. — Buffalo, N. Y. — The Park Department of the City, David A. Seymour, Supt., has let a contract to LORD & BURNHAM, 1133 Broadway, New York, for the construction of a greenhouse with ornamental dome, to be erected in Delaware Park. Estimated cost, $18,000.

***Barge Canal.**—Albany, N. Y.—Bids will be received by Charles E. Treman, Supt. Pub. Wks., Capitol, Albany, until noon, Oct. 24, for improving the New York State Canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and of the acts amendatory thereto, as follows: Contract No. 24, Champlain Canal, Section 2, for constructing a guard gate at Crocker's Reef; length, .19 mile; sheets 1 to 14 inclusive. Contract No. 88, Champlain Canal, Section 1, for the reconstruction of a portion of the bridge crossing the Hudson River at Schuylerville; sheets 1 to 4 inclusive. Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bond required and other information for proposers may be had at the office of the Superintendent of Public Works, Albany; at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the Canal Office, Spaulding's Exchange, Buffalo, N. Y. Copies of detailed plans or drawings may be obtained from John A. Bensel, State Engr. and Surv., Albany, N. Y., upon payment to him of the cost of producing them.

***Concrete Wall.**—Trenton, N. J.—Bids will be received at the Executive Department, State House, Trenton, until noon, Oct. 17, for all labor and material necessary for the complete construction of a concrete retaining wall along the Delaware River on lands of the State of New Jersey, in accordance with plans, drawings and specifications on file in the office of E. J. Edwards, State Comptroller, at the State house. Bids are to be received by the Board of Commissioners of the City of Trenton at the same time and place for the continuation of a concrete wall to be constructed on lands of the city. For details, see advertisement in this issue.

***Concrete Drain.**—Trenton, N. J.—Bids will be received at the Executive Department, State House, Trenton, until noon, Oct. 17, for all labor and material necessary for the complete construction of a concrete drain from the present mouth of the Petties Run souhwesterly to the line of the proposed retaining wall, in accordance with plans, drawings and specifications on file in the office of E. I. Edwards, State Comptroller, at the State House.

✚Elevators.—Philadelphia, Pa.—The contract for four new electric elevators at the Vine St. pier has been awarded by the Department of Wharves, Docks and Ferries to the SUPLEE ELEVATOR CO., 3207 Spring Garden St., Philadelphia, Pa., at $14,827. Noted on Sept. 7.

Dredging. — Wilmington, Del. — Bids were received by Maj. R. R Raymond, Corps Engrs., U. S. A., Wilmington, on Sept. 13 for dredging in Tuckerton Creek as follows: The Richards Dredging Co., Philadelphia, Pa., 24 cts. per cu. yd.; Pennsylvania Dredging Co., Camden, N. J., 23.4 cts.

Dredging. — Wilmington, Del. — Bids were opened on Sept. 15 as follows by Maj. R. R. Raymond, Corps Engrs., U. S. A., for dredging in Broadkill River: Rickards Dredging Co., Philadelphia, Pa., 19 cts. per cu. yd.; River & Harbor Improvement Co., Philadelphia, Pa., 21.4 cts.; Atlantic Dredging Co., Philadelphia, 27 cts.

Dredging.—Wilmington, Del. — Bids were received as follows on Sept. 12 by Maj. R. R. Raymond, Corps Engrs., U. S. A., Wilmington, for dredging in Cooper Creek, N. J.: The Rickards Dredging Co., Philadelphia, Pa., 25.4 cts. per cu. yd.; the Atlantic Dredging Co., Philadelphia, 24 cts.; River & Harbor Improvement Co., Philadelphia, 24.8 cts.

Dredging.—Washington, D. C.—Bids were received as follows on Sept. 22 by Col. W. C. Langfitt, Corps Engrs., U. S. A., Washington, for dredging in the James River, Va.: (a) Dredging at Goose Hill Flats, 430,000 cu. yds.; (b) dredging at Harrison's Bar, 380,000 cu. yds.; (c) dredging at City Point Shoal, 30,000 cu. yds.: Norfolk Dredging Co., Norfolk, Va., (a) $60,200, (b) $76,000, (c) $6,000; W. F. French, Norfolk, (c) $72,000; Morris & Cumings, New York, (a) $40,860, (b) $36,100, (c) $2,800; Atlantic, Gulf & Pacific Co., Norfolk, (a) $35,432, (b) $31,312, (c) $2,472; Coastwise Dredging Co., Norfolk, (a) $23,885, (b) $26,410, (c) $2,085; Sanford & Brooks Co., Inc., Baltimore, Md., (a) $33,970, (b) $30,020, (c) $2,370; Maryland Dredging & Contracting Co., Baltimore, Md., (a) $25,800, (b) $22,800, (c) $1,800.

Subway. — Washington, D. C. — The Commissioners of the District of Columbia, it is reported, awarded to the BALTIMORE & OHIO R. R. CO. the contract to construct the Cedar St. subway, in Takoma Park, under the company's tracks, for about $37,000.

Cable.—Washington, D. C.—The following bids were received by the Commissioners of the District of Columbia, on Sept. 18, for furnishing underground signal and telephone cable: (a) 5,000 ft. 3-pere cable, rubber-insulated; (b) 8,000 ft. [illegible]-pere cable, paper-insulated; (c) 16,000 ft. 12-pere same: National Electrical Supply Co., Washington, (a) 12.5 cts., reels to be returned; Standard Underground Cable Co., Pittsburgh, Pa., (a) 12.3 cts., (b) 12.2 cts., (c) 15.2 cts.; Western Electric Co., New York, (a) 18 cts., (b) 11.2 cts., (c) 14.2 cts.; National Conduit & Cable Co., 41 Park Row, New York, (b) 20.2 cts., (c) 25.5 cts.

Roof.—Washington, D. C.—Bids were received as follows on Sept. 26, by the Secretary of the Interior, Washington, for installing a new roof on the Patent Office Building, Washington: Warren Ehret Co., Washington, slag, $8,400; Ernest Gichner, Washington, tin, $11,985; Rose Bros. Co., Washington, slag, $9,800; J. C. Council, Hampton, Va., tin, $11,837; alternative, tin, $11,433.

✚Projectiles.—Washington, D. C.—The contracts for furnishing projectiles for the Navy, bids for which were opened on Sept. 13, have been awarded as follows: MIDVALE STEEL CO., Philadelphia, Pa., for 1,500 8-in. shell and 1,000 12-in. shell; BETHLEHEM STEEL CO., South Bethlehem, Pa., for 5,000 8-in. shell and 2,500 12-in. shell; CRUCIBLE STEEL CO., Pittsburgh, Pa., for 2,500 12-in. shell; WASHINGTON STEEL & ORDNANCE CO., Guisboro Point, D. C., 1,500 8-in. shell and 3,000 12-in. shell.

Lumber.—Norfolk, Va.—The Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., will receive bids until Oct. 10 for furnishing 165,000 ft. of North Carolina pine lumber, Schedule 3936, delivery navy yard, Norfolk.

Removing Wreck.—Jacksonville, Fla. —Bids will be received by Capt. J. R. Slattery, Corps Engrs., U. S. A., Jacksonville, until noon, Oct. 20, for removing wreck "Zeeburg" from St. Johns River.

Tanks.—Jacksonville, Fl[illegible] [illegible]ids will be received by Board of [illegible]tees for Water-Works and Improv[illegible] Bonds, addressed to W. M. Bostr[illegible] Jr., until 3 p. m., Oct. 4, for all [illegible]t of the following, prices to be [illegible] for material delivered in good [illegible] f. o. b. new power station, Jacks[illegible]e, stating quickest guaranteed [illegible]: Five 10,000-gallon cylindrical st[illegible] tanks; separating oil filter and s[illegible]e tank; oil weighing machine; 10 × [illegible] 10 in. or equivalent capacity di[illegible] acting steam driven air compres[illegible] and air tank; 1,000 cu. ft. per min. [illegible] driven ventilating fans. Speci[illegible]ons are on file in offices of the Boa[illegible]nd Scofield Engineering Co., Phil[illegible]ia, Pa.

✚Wharf. — Abbeville, La.—The City Council has awarded the [illegible]act for the erection of a public [illegible] 150 × 200 ft., on Vermilion Riv[illegible]pposite the foot of Lafayette St., to [illegible] MONTAGUE.

✚Coaling Station.—Louis[illegible] Ky.—The ROBERTS & SCHA[illegible] CO., Engrs. and Contractors, [illegible] Colony Bldg., Chicago, Ill., have b[illegible]warded a contract by W. M. Mitchel[illegible]r. and Ch. Engr., Kentucky & I[illegible] Terminal Ry. Co., Louisville, f[illegible]signing and building a 500-ton fir[illegible] Holmen counterbalanced buck[illegible]ocomotive coaling station for ins[illegible]tion at Louisville, to be used join[illegible] by the Baltimore & Ohio R. R., Sou[illegible]rn Ry. and the Monon. R. R.

✚Jetties, Wall.—Cleveland, Ohio.—Bids were received on Sept. [illegible] by the Board of County Commiss[illegible]ers of Cuyahoga County for bridge work per Report 2,862, jetties, Rocky River, near Mastic bridge; and Report 2,863, retaining wall, Rocky River, below Mastic bridge. Contracts have been awarded as follows: Report 2,862, to CHARLES PATTERSON; Report 2,863, to J. W. BUHL.

✚Crushing, etc., Machinery.—Cleveland, Ohio.—The FORT PITT ENGINEERING CO., Oliver Bldg., Pittsburgh, Pa., has been awarded the contract for furnishing the River Furnace Co., of Cleveland, the crushing, screening and elevating machinery to be used in their new slag-crushing plant. This equipment consists of a No. 6 gyratory crusher, a No. 6 crusher elevator, 60 ft. centers; cylindrical screen, 42-in. diameter by 16 ft. long; and a balanced shaking screen.

Fire Apparatus. — Cleveland, Ohio. — Bids will be received until noon, Oct. 2, by the Department of Public Safety, F. G. Hogen, Dir., for furnishing the Fire Department with one first-class hook and ladder truck complete, equipped with quick raising 65-ft. aerial ladder and for two second-size steam fire engines.

✚Ditch.—Rensselaer, Ind.—The contract for constructing the Harvey J. Dexter ditch, in Union Township, it is reported, has been awarded to BARNEY D. COMER, of Rensselaer, at 7½ cts. per cu. yd.

Rock. — Detroit, Mich. — Bids will be received until 3 p. m., Oct. 16, by Col. C. McD. Townsend, Corps Engrs., U. S. A., Jones Bldg., Detroit, for furnishing about 1,000 tons of rock for the piers at Alpena, Mich.

Levee Work.—Carlinville, Ill.—Bids were received on Aug. 28 by the Morse-Warren Engineering Co., of Carlinville, for work in Chesterfield Levee District, including 34,000 cu. yds. of levee work, 10,000 cu. yds. straightening creek, 36,000 cu. yds. open ditch, culverts, flap doors, etc. The contract has been awarded to H. R. HUTCHINSON, of New Boston, Ill., at $12,850.

Dock Work.—Chicago, Ill.—Bids will be received until Sept. 30 by L. E. McGann, Comr. Pub. Wks., for the removal of the remnant of the east 22 ft. and the west 22 ft. of old dock along the north side of the 39th St. Canal, at the crossing of South Morgan St., and the construction thereat of 44 ft. of new dock.

✚Coaling Station.—Rose Hill, Ill.—The ROBERTS & SCHAEFER CO., Engineers and Contractors, Old Colony Bldg., Chicago, Ill., have been awarded a contract by the Vandalia R. R., of the Pennsylvania System, for a fireproof, 500-ton Holmen counterbalanced type locomotive coaling station for installation at Rose Lake. This plant will be built throughout of reinforced concrete and steel, and will coal locomotives on the St. Louis Division. Approximate contract price, $25,000.

Rebuilding Dock.—Milwaukee, Wis. —Bids for repairing and rebuilding a dock on the east bank of the Milwaukee River from Johnson St. to Knapp St. are being received by the Board of Public Works. Harry E. Briggs is Comr.

✚Channel.—Clarinda, Iowa.—Bids were received on Sept. 12 by the County Supervisors for the construction of a new channel for the West Nodaway River, in Drainage District No. 5, to be 65,700 ft. in length, of which approximately 51,000 ft. are to be excavated and about 14,700 ft. are in the present channel of the West Nodaway River. The contract has been awarded to D. C. STEPHENS, of Buffalo, N. Y., at 6.73 cts. per cu. yd., or $57,097.

Drain.—Rockwell City, Iowa.—Bids will be received until Oct. 5 by C. O. Dixon, County Audr., for tile drain No. 163, Calhoun County, including about 39,175 ft. of 36 to 6-in. tile.

Ditch.—St. Paul, Minn.—It is reported that the establishment of an 18-mile judicial ditch through Logan, Hebron and Bane Townships, of Aitkin County, known as Ditch No. 2, is planned. Estimated cost, about $40,000. Philip J. McCauley, of St. Paul, is Engr.

Ditch.—Fremont, Neb.—The contract for constructing the Colgan Ditch has been awarded to SCHLEUTES BROS., at 1[illegible] cts. per cu. yd.

Fire Escapes.—Fargo, N. Dak.—Bids will be received until Oct. 4 by Addison Leech, County Audr., Fargo, for fire escapes at the County Hospital.

Wharf House.—Kansas City, Mo.—Bids will soon be asked by the Board of Public Works for the construction of a wharf house. Estimated cost, $25,000.

Channel Work.—St. Charles, Mo.—Bids will be received until 3 p. m., Oct. 9, by Alfred Riske, Engr. in Charge, Dardenne Creek Improvement, Drainage District No. 3, St. Charles, for clearing and making a cutoff in the channel of the creek containing 15,099 cu. yds. of material.

Dwelling.—Hot Springs, Ark.—The following bids were received by the Secretary of the Interior, Washington, D. C., on Sept. 15 for the construction of a brick dwelling on the south side of Hot Springs Mountain Reservation, Hot Springs: Newport Contracting & Engineering Co., Newport News, Va., $33,800, Oct. 1, 1912; J. D. Brock, Hot Springs, $32,300.

Drainage District.—Blessing, Tex.—Preliminary surveys for the proposed drainage district near Blessing have been completed. It is proposed to drain about 50,000 acres. A. R. Lukie, Bay City, Tex., is Engr.

Drainage District.—Brownsville, Tex.—The Commissioners' Court of Cameron County has ordered the organization of two more drainage districts. One is situated adjacent to Brownsville and the other adjoins San Benito. J. W. Davis of Brownsville is Engr. of the former district and L. D. Carpenter of San Benito, Engr. of the lattor district.

Drainage Ditches.—Brownsville, Tex.—Bids will be received at the office of A. W. Amther, Drainage Engr., by George M. Smith, Chn. Drainage Comrs. Cameron County Drainage District No. 1, Brownsville, until noon, Oct. 11, for the construction of drainage ditches, etc., being a total length of 40 miles, and about 1,000,000 cu. yds. of excavation. Plans, profiles and specifications are on file at the office of the Clerk of Camerson County and A. W. Amther, Brownsville. The successful bidder is required to buy bonds now issued for $204,500.

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
9-30	Air compressor, Norfolk, Va. ....(S.)	9-21
9-30	Cranes, Norfolk, Va....(S.)	9-21
9-30	Sea wall, Norfolk, Va....(S)	8-31
9-30	Track, Norfolk, Va.......(S)	8-31
10- 2	Ditches, Powell, Wyo...(S.)	8-31
10- 4*	Bridge, Bermuda, La.(P.&S.)	9- 7
10- 7	Piers, Washington, D C (S)	9-14
10-21	Roof covering, Norfolk, Va. ....(S.)	9-21
10-21	Waterfront impvts., Boston, Mass ....(S.)	9-21
10-28	Impvts. to quarters, Vallejo, Cal ....(S.)	9-21
11-10	and 11 Building, Hawaii.(S.)	9-21
11-10	and 11, Storehouse, Hawaii. ....(S.)	9-21

Light, Heat and Power Plants.

Bids close.		Noted in issue of
9-31	Hydro-electric power plant, Riverdale, Utah..........	8-24
10- 2	Elec, equipment, New York.	9-21
10- 2	Electrical equipment, New York, N. Y...............	9-28
10- 2	Power-house, Salt Lake City, Utah	9-28
10-3	Lighting fixtures, Tulsa, Okla.	9-28
10- 3	Lighting fixtures, feeders, etc., New York, N. Y......	9-28
10- 3	Heating and lighting system, Fort Stevens, Ore....	9-21
10- 4	Equipment, Jacksonville, Fla.	9-28
10- 5	Addition to lighting system, New York, N. Y......	9-28
10- 6	Street lighting, Overbrook, N. J.	9-28
10- 9*	Hydroelectric station and equipment, Wash., D. C.....	9-14
10- 9	Lighting fixtures, Los Angeles, Cal.	9-21
10- 9	Heating and ventilating system, Los Angeles, Cal......	9-21
10-11	Power house, Colonial Beach, Va.	8-31
10-11*	Lighting fixtures, etc., Omaha, Neb.	9-21
10-12*	Power house and equipment, Wheeling, W. Va...	9-21
10-12	Lighting fixtures, Butte, Mont.	9-14
10-14	Lighting fixtures, Washington, D. C.	9-28
10-15	Lighting fixtures, Washington, D. C.	9-28
10-15*	Electric railway, New York, N. Y.	9-28
10-18	Inverted lamps, Boston, Mass.	9-28
10-18	Gas lamps, Boston, Mass....	9-28
10-18	Street lighting, Charleston, S. C.	9-14
10-23	Electrical equipment, Los Angeles, Cal.	9-21
10-24	Inverted lamps and posts, Boston, Mass.	9-21

Bridges.

Bids close.		Noted in issue of
9-30	Bridges, Lockport, Ill.......	9-21
10- 2	Bridge, Council Grove, Kan.	9-21
10- 2	Bridges, Hendersonville, N. C.	9- 7
10- 2	Bridges, Gulfport, Miss.	9-28
10- 2	Bridge, Liberty, Ind........	9-28
10- 2	Bridge, McKees Rocks, Pa..	9-28
10- 2	Bridge, Philippi, W. Va.	9-28
10- 2	Bridge, Santa Barbara, Cal.	9-28
10- 3	Bridge, Butler, Pa.	9-28
10- 3	Bridges, Fowler, Ind.	9-28
10- 3	Bridge work, Pittsburgh, Pa.	9-28
10- 3	Bridge, Reno, Nev.	9-28
10- 4	Bridge, Jacksonville, Fla. ..	9-28
10- 4*	Bridge, Bermuda, La........	9- 7
10- 4	Bridge, Cartersville, Ga....	9-21
10- 4	Bridges, Albuquerque, N. M.	9-21
10- 4	Bridge, Norristown, Pa....	9-21
10- 6	Bridge, Vermilion, Minn. ...	9-28
10- 6	Bridge, Lakemills, Wis.	9-28
10- 6	Bridge, Oroville, Cal.	9-28
10- 7	Bridge repair, Clearfield, Pa.	9-28
10- 7	Bridge work, Cleveland, O.	9-14
10- 9	Bridge, Ashdown, Ark.	9-28
10- 9	Bridges, Sussex, Va.	9-28
10-10	Bridge, Theodore, Utah....	9-21
10-13	Bridges, Cincinnati, Ohio ...	9-28
10-17	Bridge, Lancaster, Pa.	9-28

Buildings.

Bids close.		Noted in issue of
9-28	Schools, Washington, D. C..	9-28
9-30	School, Stewart, Minn.	9-28
9-30	School, Waltham, Mass.	9-28
9-30	Armory, Red Deer, Alta....	9-28
9-30	School, Norwalk, Cal.......	9-21
9-30	School, Gainesville, Fla....	9-14
10- 2	School, Moville, Iowa	9-21
10- 2	School, Kearny, N. J........	9-21
10- 2	School, New York, N. Y....	9-21
10 -2	School, Corona, L. I., N. Y..	9-28
10- 2	School addition, Wichita, Kan.	9-28
10- 3	Dormitory, New York.......	9-28
10- 4	Stockade bldgs., Columbia, S. C.	9-28
10- 5*	Ice-making ammonia compressor, Hot Springs, Ark.	9-14
10- 6	U. S. post office, Pendleton, Ore.	9- 7
10- 7	Factory for prison, Rusk, Tex. ....(Mfg. Pl.)	9-21
10- 7	School, Kingman, Ind.......	9-28
10-7	Buildings, Springfield, Mo...	9-28
10- 9	U. S. post office, Winchester, Ky.	8-31
10-10	U. S. post-office, Washington, D. C.................	8-31
10-10	Auditorium, Ann Arbor, Mich.	9-28
10-10	Hospital, Redfield, S. Dak..	9-28
10-11	Buildings, Columbus, Ohio..	9-28
10-11	Armory, Sarnia, Ont........	9-28
10-11	Laboratory bldgs., Columbus, Ohio	9-28
10-11*	Cells, etc., for jail, Omaha, Neb.	9-21
10-11	U. S. post-office, Newberry, S. C.	9-21
10-11	Sheep exhibit bldg. Columbus, Ohio	9-21
10-15	Hospital, Salem, Ohio.......	9-28
10-18	School, Whippany, N. J.....	9-28
10-18	Court house, Benton, Mo....	9-28
10-24	U. S. post office, Lexington, Va.	9-28
10-31*	U. S. post-office, Florence, Ala.	9-21
10-31*	U. S. post-office, Minneapolis, Minn.	9-14
11- 1	Plans and specifications, library, Muskogee, Okla.	9-28

Water-Works.

Bids close.		Noted in issue of
9-28	Reservoir, Beatrice, Neb....	9-28
9-29	Intake pipes, etc., Port Hope, Ont.	9-28
9-29	Reservoir, Toledo, Ohio ...	8-31
9-29	Dam, etc., McAlester, Okla.	9-21
9-29	Enlarging dam, Jefferson, O.	9-21
9-30	Machinery, etc., Alliance, Neb.	9-21
9-30	Watermains, Summerville, Ga.	9-21
9-30	Brass nipples, Chicago, Ill.	9-28
10- 1	Settling basin, Whitby, Ont.	9-28
10- 2	Water main, Fargo, N. Dak.	9-28
10- 2	Pump, Platteville, Wis......	9-28
10- 2	Water mains, Bartlett, Tex.	9-28
10- 2	Well, Kent, Minn.	9-28
10- 2	Water system, Dorris, Cal..	9-28
10-2	Pipe, Newell, S. Dak........	9-21
10- 2	W.-wks. material, Nocona, Tex.	9-21
10- 2	Water-works, Upland, Wyo.	9-21
10- 2	Ditches, Powell, Wyo......	8-31
10- 3	Drainage system, Brownsville, Tex.	9-14
10- 3	Filter plant, Montreal, Que.	9-21
10- 3	Canal, Manteca, Cal........	9-21
10- 3	Water meters, Los Angeles, Cal.	9-21
10- 3	Water pipe, Pittsburg, Pa..	8-28
10- 4	Water-works, Syracuse, Kan.	9-28
10- 4	Pumping station repairs, New York	9- 7
10- 5	Water-works, Steinauer, Neb.	9-28
10- 6	Water-works, Oxford, Ohio.	9-28
10- 6	Pumping station equipment, Winchester, Ill.	9-28
10- 6	Force-main, Monterey, Cal..	9-21
10- 9	Water main ditch, Loup City, Neb.	9-28
10- 9*	Filter plant work, Niagara Falls, N. Y.	9-28
10-10	Water-works, Shelby, Neb..	9-28
10-11	Water pipe, Long Beach, Cal.	9-28
10-11*	Reservoir, Greencastle, Pa..	9-28
10-11*	Water-works, Colonial Beach, Va.	8-24
10-12*	Canal, Yuma, Ariz..........	9-21
10-12*	Intake pipe, etc., Windsor, Ont.	9-21
10-16	Dam, Carlsbad, N. Mex.....	9- 7
10-16	Intake, etc., Muskegon, Mich.	9-28
10-16*	Reclamation work, Sunnyside, Wash.	9-28
10-16*	Excavation, pipe, etc., Mabton, Wash.	9-28
10-16*	Pumping engine, Sheboygan, Wis. (See "Proposals").....	9-28
10-17*	Pipe, valves, etc., Charlotte, N. C. (See "Proposals")....	9-28
10-18	Water system, Exeter, Cal..	9-28
10-18	Water system, Camp Yosemite, Cal.	9-28
10-18	Water-works, Lexington, Miss.	9-28
10-20*	Irrigation canal, San Antonio, Tex. (See "Proposals")	9-28
10-31	Flume work, Wisdom, Mont.	9-28
10-31	Water-main, Cleveland Hgts., Ohio	9-28
11- 1*	Head gates, Boise Falls, Idaho	9-28

Sewers.

Bids close.		Noted in issue of
9-28	Sewers, Canton, Ohio........	9-28
9-29	Sewers, Duluth, Minn.......	9-28
9-30	Sewers, Dayton, Ohio.......	9-28
10- 2	Sewers, Everson, Pa.	9-28
10- 2	Sewers, Klamath Falls, Ore.	9-28
10- 2	Sewers, Cincinnati, Ohio....	9-28
10- 2	Sewers, Tonowanda, N. Y...	9-28
10- 2	Sewers, Syracuse, N. Y.	9-28
10- 2	Sewers, Dayton, Ohio	9-28
10- 2	Sewer, Fargo, N. Dak......	9-21
10- 3	Sewer system, Hilliards, O.	9-21
10- 3	Sewers, Pittsburgh, Pa.	9-28
10- 5	Pumping equipment, Alliance, Ohio	9-28
10- 5	Sewers, Huntington, W. Va.	9-21
10- 5	Disposal plant, Madison, S. Dak.	9-14
10- 6*	Sewers, Dallas, Tex........	9-21
10- 6	Sewer, St. Louis, Mo........	9-28
10- 9	Sewage disposal plants, Mason City, Iowa	9-28
10- 9	Sewers, Jacksonville, Fla...	9-21
10-11*	Sewers, etc., Colonial Beach, Va.	8-24
10-13	Sewer, Minster, Ohio	9-28
10-15	Sewers, Birmingham, Ala...	9-28
10-15	Sewers, Geneva, Ohio	9-28
10-18	Sewers, Lexington, Miss....	9-28
10-20	Sewers, Payette, Idaho.....	9-21
10-30	Sewers, Summerville, Ga...	9-21

Streets and Roads.

Bids close.		Noted in issue of
9-28	Repairing pavements, Chicago, Ill.	9-28
9-29	Grading, etc., Duluth, Minn.	9-28
9-29	Paving, etc., Troy, N. Y.....	9-28
9-29	Paving, Boston, Mass.......	9-28
9-29	Paving, Catlin, Ill..........	9-14
9-29	Street improvement, Cincinnati, Ohio	9- 7
9-29	Paving, Grafton, W. Va....	9-21
9-29	Paving, etc., Frostburg, Md.	9-21
9-29	Paving, etc., Philadelphia, Pa.	9-28
9-30	Grading and paving, Ashland, Ohio	9-28
9-30	Grading and paving, Oakland, Ohio	9-28
10- 1	Paving, Galveston, Tex.....	9-21
10- 1	Paving, Bartlesville, Okla..	9-21
10- 2	Street impvt., Middletown, Ohio	9-21
10- 2	Road construction, Pomeroy, Wash.	9-21
10- 2	Paving, Fresno, Cal........	9-21
10- 2	Road-fill, Warren, Ohio......	9-21
10- 2	Sidewalks, Grove City, Ohio.	9-21
10- 2	Paving, Santa Barbara, Cal.	9-28
10- 2	Road improvement, Colfax, Wash.	9-28
10- 2*	Paving, Carbondale, Pa.....	9-28
10- 2	Grading, etc., Los Angeles, Cal.	9-28
10- 2	Paving, etc., Galveston, Tex.	9-28
10- 2	Sidewalk, Syracuse, N. Y....	9-28
10- 2	Sidewalks, Steubenville, Ohio	9-28
10- 2	Grading, etc., Dayton, Ohio.	9-28
10- 2	Curb, Haddonfield, N. J.....	9-28
10- 2	Widening street, Jersey City, N. J.	9-28
10- 3	Grading, Yankton, S. Dak..	9-28
10- 3	Repaving, etc., New York, N. Y.	9-28
10- 3	Grading, etc., Upper Marlboro, Md.	9-28
10- 3	Paving, Jackson, Miss.	9-28
10- 3	Road construction, Auburn, Cal.	9-28
10- 3	Grading and paving, Bryan, Ohio	9-28
10- 3	Paving, etc.,Pittsburgh, Pa..	9-28
10- 3	Paving, Sharon, Pa........	9-21
10- 3	Gravel rd., Rensselaer, Ind.	9-21
10- 3	Gravel rds., Lawrenceburg, Ind.	9-21
10- 3	Gravel rd., Bedford, Ind....	9-14
10- 3	Paving, etc.. Palatka, Fla.	9-14
10- 3	Gravel roads, Logansport, Ind.	9-21
10- 3	Grading, etc., Oneonta, Ala.	9-21
10- 3	Curb and gutter, Cedartown, Ga.	9-21
10- 4	Macadam road, Rushville, Ind.	9-21
10- 4	Stone road, Bloomington, Ind.	9-21
10- 4	Paving, etc., Anniston, Ala.	9-21
10- 4	Road impvt., Pittsburgh, Pa.	9-21
10- 4	Grading, etc., New York, N. Y.	9-28
10- 5	Paving, etc., Cleveland, Ohio	9-28
10- 5	Widening road, New York, N. Y.	9-28
10- 5	Street improvement, New York, N. Y................	9-28
10- 5	Sidewalks, Brookfield, Ill..	9-28
10- 5	Paving, Huntington, W. Va.	9-21
10- 5	Paving, Newark, N. J......	9-28
10- 6	Gravel roads, Crown Point, Ind.	9-28
10- 6	Paving, Indianapolis, Ind...	9-28
10- 6	Road Impvt., Cincinnati, O.	9-14
10- 6	Sidewalks, Salt Lake City, Utah	9-28
10- 6	Grading, etc., Hastings, Minn.	9-28
10- 6	Grading and paving, Ravenna, Ohio	9-28
10- 6	Road improvement, Cincinnati, Ohio	9-28
10- 7	Gravel roads, Washington, Ind.	7-28
10- 7	Grading, etc., Cleveland, O.	9-14
10- 9	Gravel road, Williamsport, Ind.	9-21
10- 9	Paving, etc., Wilkes-Barre, Pa.	9-28
10- 9	Regulating, etc., New York.	9-28
10-10	Highways, New Orleans, La.	9-28
10-10	Paving, etc., Caldwell, Ohio.	9-14
10-10	Gravel road, Bluffton, Ind..	9- 7
10-13	Road construction, Winchester, Ind.	9-28
10-18	Road improvement, Pleasant Ridge, Ohio	9-28
10-21	Gravel road, Williamsport, Ind.	9-14

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Bids close.		Noted in issue of
9-30	Dock work, Chicago, Ill..	9-28
9-30	Air compressor, Norfolk, Va.	9-21
9-30	Track, Norfolk, Va.........	8-31
9-30	Sea wall, Norfolk, Va......	8-31
9-30	Cranes, Wash., D. C.......	9-14
10- 2	Channel excavation, Chicago, Ill.	9-14
10- 2	Breakwater, North Bay, Ont.	9-14
10-2*	Lockkeepers' houses, Wheeling, W. Va.	9- 7
10-2*	Dredging, etc., Buffalo, N. Y.	9- 7
10- 2*	Extending jetty, Portland, Ore.	9- 7
10- 2	Levee, Jackson, Miss......	9-14
10- 2	Insulators, Australia (Foreign)	9-21
10- 2	House, Cochrane, Ont......	9-21
10- 2	Levee enlargement, Greenville, Miss.	9-21
10- 2	Cement, sand, etc., New York	9-21
10- 2	Motor trucks, New York...	9-21
10- 2	Rope, New York...........	9-21
10- 2	Fire apparatus, Cleveland, Ohio	9-28
10- 3	Sign posts, Goldfield, Nev..	9-28
10- 3	Ditches, Brownsville, Tex...	9-21
10- 3	Dredging, Sarnia, Ont......	9-21
10- 3	Breakwater, No. Bay, Ont..	9-21
10- 3*	Bulkhead, Providence, R. I..	8- 7
10- 3	Drainage system, Hammond, Ill.	9-28
10- 4	Tanks, Jacksonville, Fla....	9-28
10- 4	Fire escapes, Fargo, N. Dak.	9-28
10- 5	Drain, Rockwell City, Iowa	9-28
10- 5	Comfort station, New York..	9-28
10- 5*	Channel excavation, Chicago, Ill. (See "Proposals")	9-28
10-6	Reinforcing grids, etc., Panama (U. S. Poss.)..........	9-21
10- 7	Piers, New York, N. Y.....	9-21
10- 7*	Dredging, etc., New York..	9- 7
10- 7	Piers, Washington, D. C. ..	9-14
10- 7	Dredging, Raritan, N. J....	9-14
10- 9	Levee, Pecan Point, Ark....	9-21
10- 9	Hydroelectric station, Panama, (U. S. Poss.)..........	9-21
10- 9	Tug, Portland, Ore.........	9-28
10- 9	Channel work, St. Charles, Mo.	9-28
10- 9	Fire protection work, New York	9-28
10-10	Lumber, Norfolk, Va.......	9-28
10-10	Crane, Brazil (Foreign)....	9-21
10-10	Excavation, Brinkley, Ark.	9-21
10-16	Rock, Alpena, Mich.	9-14
10-10*	Mail-handling apparatus, Washington, D. C.	8-31
10-10*	Mechanical equipment, Washington, D. C.	8-31
10-10	Elevator plant, Washington, D. C.	8-31
10-11	Wharf improvement, Petewawa, Ont.	9-28
10-11	Wharf, Cache Bay, Ont.....	9-28
10-11	Filling, Three Rivers, Que..	9-28
10-11	Drainage ditches, Brownsville, Tex.	9-28
10-12	Dredging, Hawaii (U. S. Poss.)	9- 7
10-14	Lock, Louisville, Ky........	9-14
10-16	Steel cells, Oroville, Cal....	9-28
10-16	Steel rails, etc., Ottawa, Ont.	9-28
10-16	Rock, Detroit, Mich.........	9-28
10-17	Concrete wall, Trenton, N. J.	9-28
10-17*	Concrete drain, Trenton, N. J.	9-28
10-17*	Garbage plant (Garbage), Paterson, N. J.	8-31
10-17*	Steel and cast iron, New Orleans, La.	9-21
10-18*	Lock valves, gates, etc., Dallas, Tex.	9-21
10-18*	Trolley wire, poles, etc., Toronto, Ont.	9-28
10-19*	Harbor board hearings, New York	9-28
10-20	Removing wreck, Jacksonville, Fla.	9-28
10-21	Waterfront impvts., Boston, Mass.	9-21
10-21	Roof covering, Norfolk, Va.	9-21
10-24*	Barge canal, Albany, N. Y..	9-28
10-27*	Dredging, Charleston, S. C. (See "Proposals")	9-28
11- 8*	Water tube boilers, Philippine Islands (U. S. Poss.)..	
11-10	and 11, storehouse, Hawaii (U. S. Poss.)...............	9-21
11-10	and 11, Building, Hawaii (U. S. Poss.)	9-21
11-11	Storehouse, Hawaii (U. S. Poss.)	9-21
11-14	Castings, cylinders, etc., Panama (U. S. Poss.).........	9-28
11-19	Elec. lighting, Roumania (Foreign)	9-21
11-20	Electric towing locomotives, Panama (U. S. Poss.)......	
10-30	Trap rock, Hartford, Conn..	9-28
12- 1*	Pumping machinery, India, (Foreign)	——
12- 4	*Engines, generators, etc., Philippine Islands (U. S. Poss.)	
——	Excavation, Shelburne Falls, Mass.	9-28

+Ditches.—La Marque, Tex.—Bids were received on Sept. 1 by B. F. Ayers, La Marque, for constructing ditches and laterals in Drainage District No. 2, requiring 210,012 cu. yds. excavation. The contract has been awarded to J. C. KELSO, of Galveston, Tex., at about $35,000 for the excavation and $1,200 for bridge work.

+Pier.—Port Arthur, Tex.—The contract for the concrete revetment work of the pleasure pier to be built here has been awarded to the BLODGET CONSTRUCTION CO., Kansas City, Mo., at $42,800. The work calls for retaining walls for an island in the lake 600 ft. square and a causeway 3,000 ft. long.

+Straightening River.—Oklahoma City, Okla.—SPRANGLE & CO., of Ft. Wayne, Ind., it is reported, have been awarded the contract by the County Commissioners for straightening the North Canadian River, from the eastern line of Canadian County to Packingtown, at 9⅝ cts per cu. yd., or $32,297. Other bidders were: E. D. Lumsden, Oklahoma City, $38,366; R. H. & G. A. McWilliams, Chicago, Ill., $37,070; Pollard Campbell Co., Omaha, Neb., $40,241; Sherwood Bros., Rocky Ford, Colo., $38,383; S. P. Bennett, Oklahoma City, $40,031; E. L. Gibbs & Co., Oklahoma City, $34,266; Campbell Bros., Lincoln, Neb., $42,097.

+Park Improvements.—Denver, Colo.—The contract for improvements in University Park and vicinity, South Denver District No. 9, has been awarded by the Board of Public Works to the DENVER & PUEBLO CONSTRUCTION CO., for $53,961. Other bidders were: Clinton Construction Co., $54,163; J. Fred Roberts, $55,473; Fuller & Acklin, $56,357; Municipal Construction Co., $58,125. The work includes 90,733 cu. yds. excavation; 64,500 lin. ft. concrete curb and gutter, 3,871 lin. ft. concrete alley returns, 1,559 lin. ft. concrete for alley crossings and 112 M ft. lumber for crosswalks and culverts.

Sign Posts.—Goldfield, Nev.—Joseph Hamilton, Clk. County Comrs., will receive bids until 10 a. m., Oct. 3, for furnishing all labor and material necessary for the erection of 100 sign posts on roads and trails of the County of Esmeralda.

Dock.—Pasco, Wash.—The city has engaged H. H. Gould, Arch., Seattle, Wash., to prepare plans for the construction of a 2-tier dock. Estimated cost, $50,000.

Tug.—Portland, Ore.—Bids will be received until 11 a. m., Oct. 9, by Maj. J. F. McIndoe, Corps Engrs., U. S. A, Portland, Ore., for constructing wood hull for U. S. tug G. H. Mendell and installing machinery therein.

+Levee.—Salem, Ore.—The State Board of Control, Salem, has awarded the contract for the construction of the levee on the Umatilla River near the Eastern Oregon Branch Insane Asylum to the NEWPORT CONSTRUCTION CO. of Newport, Ore., at $11,000.

+Harbor Equipment Work.—Seattle, Wash.—The contract has been awarded to J. M. CLAPP, Seattle, for the construction of dykes in connection with harbor improvements at Everett Harbor and the Snohomish River, Wash., at $113,414. Noted on Aug. 31.

Pier.—Oceanfork, Cal.—The Great Western Amusement Co., San Francisco, Cal., has retained J. D. Schuyler, Engr., Union Trust Bldg., Los Angeles, Cal., to prepare plans for a reinforced concrete pier to be erected here. The structure will be 263 ft. front by 1,000 ft. long. A. F. Rosenheim, Arch., H. W. Hellman Bldg., Los Angeles, will design the buildings for the pier, among which will be a Tivoli Cafe, 50 × 150 ft., with mezzanine floor, and roo garden, roller coaster, moving sidewalk, bowling alley, etc.

Steel Cells.—Oroville, Cal.—Bids will be received by the Clerk of Board of Supervisors, Oroville, until 11 a. m., Oct. 16, for furnishing, installing and equipping seven Bessemer steel cells and accessories. C. F. Bolding is Clk.

Piers and Docks.—San Francisco, Cal.—The Harbor Board will soon ask for bids for the construction of several new piers and docks.

+Concrete and Fireproofing.—San Francisco, Cal.—The CONTINENTAL FIREPROOFING CO., of San Francisco, has been awarded a contract by the Knights of Columbus Hall Association to construct the concrete and fireproofing work of its new hall on Golden Gate Ave., at $17,000.

Pier.—Santa Cruz, Cal.—The Santa Cruz Portland Cement Co. will petition the City Commissioners for a franchise to construct a concrete pier in the harbor, 1,500 ft. long.

Drydock.—St. John, N. B.—The Norten-Griffiths Steel Construction Co., Dominion Trust Bldg., Vancouver, B. C., it is reported, has submitted the lowest bid for the proposed drydock, breakwater and wharves at St. John. Estimated cost, $3,000,000.

Steel Rails, Etc.—Ottawa, Ont.—Bids for the following supplies for the Hudson Bay Ry., addressed to L. K. Jones, Secy. Dept. Rys. and Canals, Ottawa, will be received until 4 p. m., Oct. 16: 30,000 gross tons steel rails, 80 lbs. per yd; 1,700 gross tons splice bars; 2,100 kegs track bolts and nuts, 200 lbs. per keg; 8,000 kegs track spikes, 200 lbs. per keg. Specifications, drawings, forms of proposal and form of contract can be seen at the office of the Chief Engineer of the Department of Railways and Canals, Ottawa, and at the office of the Chief Engineer of the Hudson Bay Ry., Winnipeg.

Drydock.—Toronto, Ont.—The Dominion Government has granted the Polson Iron Works, of Toronto, a 3% bonus yearly for 20 years on $900,000, which is to be spent in building a new drydock and repair shop on Toronto Harbor. All financial arrangements for the project, it is reported, have been consummated, and operations will start at once. The dock will be located at the foot of Frederick St., just west of the Polson Co.'s premises.

Wharf.—Victoria Harbor, Ont.—The Canadian Pacific Co. has awarded a contract to the JOHN S. METCALF CO., LTD., 54 St. Francis Xavier St., Montreal, Que., for 700 ft. of cribbed wharf, with reinforced concrete superstructure, at Victoria Harbor, in addition to the 6,500 ft. already built.

***Trolley Wire, Poles,** [illegible]—Toronto, Ont.—Separate or bulk bids will be received addressed to G. R. Geary, Mayor and Chn. Bd. of Control, until noon, Oct. 18, for the supply of overhead and pole line materials, which include the following: No. 2/0 trolley wire; 300,000 c.m. feeder wire; steel tubular poles; span wire, hangers, ears, insulators and pins, etc. Specifications and forms of proposal may be obtained on application to the Department of Railways and Bridges, City Engineer's Office, Toronto.

Wharf.—Cache Bay, Ont.—Bids will be received until Oct. 11 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, for the construction of a wharf. Plans, specification and form of contract can be seen and form of proposal obtained at Ottawa or the offices of J. G. Sing, Dist. Engr., Confederation Life Bldg., Toronto, or Postoffice, Cache Bay.

Wharf Improvement.—Petewawa, Ont.—Bids will be received until Oct. 11 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, for improvement of public wharf. Plans, specifications and form of contract can be seen and forms of proposal obtained at Ottawa, or offices of J. G. Sing, Dist. Engr., Toronto, or Postmaster, Petewawa.

Filling.—Three Rivers, Que.—Bids will be received until Oct. 11, by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, Ont., for additional filling at new coal docks. Plans, specifications and form of contract can be seen and form of proposal obtained at Ottawa or at the offices of A. R. Decary, Dist. Engr., Quebec; J. L. Michaud, Dist. Engr., Montreal, and Jos. Lamoreaux, Engr.-in-Charge, Three Rivers, Ottawa.

U. S. POSSESSIONS AND CUBA.

Elec. Towing Locomotives.—Panama.—Bids will be received by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., until 10.30 a. m., Nov. 20, for electric towing locomotives.

***Water-Tube Boilers.**—Philippine Islands.—Bids for water-tube boilers will be received by Maj. C. H. McKinstry, Corps Engrs., U. S. A., Office-in-Charge of Defensive Works, Manila, until 10 a. m., Nov. 8. Information on application at Manila or to Chief of Engineers, U. S. A., Washington, D. C.

***Engines, Generators, Etc.**—Philippine Islands.—Bids will be received until 10 a. m., Dec. 4, by Maj. C. H. McKinstry, Corps Engrs., U. S. A., Officer-in-Charge of Defensive Works, Manila, for engines, generators, synchronous converters and potential transformers. Information on application at Manila and at Chief [illegible] Engineers, U. S. A., Washington, D. [illegible]

Castings, Cylinders, Etc.—Panama.—Bids will be received by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comm., Washington, D. C., until Nov. 14 for material for chain f[illegible] for all locks, including steel ha[illegible]pe castings, cylinders, sheaves, [illegible], structural work, operating [illegible], piping and fittings, mechanism[illegible] starting and stopping pumps, etc.

Scrap Iron.—Panama.—[illegible] were received as follows on S[illegible] by the Gen. Purchasing Officer, [illegible]ian Canal Comn., Washington, [illegible] for the purchase of "French scr[illegible] including abandoned locomotives, [illegible] barges, dredges and miscellane[illegible]unk, the same to be removed in [illegible] years; Baston Iron & Metal C[illegible], Baltimore, Md., $115,500; Urban S[illegible]rsch, St. Louis, Mo., $101,000; C[illegible] Hirsch & Sons Iron & Rail Co., S[illegible]is, $91,-600; Isadore Rosenberg, S[illegible] Francisco, Cal., $101,000; Morris Rosenthal, San Francisco, $210,0[illegible] Chicago House Wrecking Co., [illegible]go, Ill., $215,000; Henry A. H[illegible]'s Sons Co., Philadelphia, P[illegible] $41,500; Isthmian Iron & Steel [illegible] Philadelphia, $45,336; David [illegible]ffman & Sons Co., Elizabeth, N. [illegible] $42,336; Phoenix Iron & Steel C[illegible] Galveston, Tex., $66,250.

Steel.—Panama.—Bids were received as follows on Sept. 6 by Maj. F. C. Boggs, Corps of Engineers, U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing the following quantities of steel rails, etc.: Class (1) 2,000 gross tons, steel rails, 90-lb.; (2) 8,000 pairs special hole splice-bars; (3) 168,000 tie-plates; (4) 33,000 special track bolts; (5) 417,000 screw spikes: Bethlehem Steel Co., South Bethlehem, Pa., (1) $62,000; R. C. Hoffman Co., Baltimore, Md., (1) $64,800; Oliver Iron & Steel Co., Pittsburgh, Pa., (4) $2,080; Spencer Otis Co., 80 East Jackson St., Chicago, Ill., (3) $32,366; Pittsburg Iron & Forge Co., Pittsburgh, Pa., (3) $35,931, (5) $11,700; United States Steel Products Co., 30 Church St., New York, (1) $64,200, (2) $10,993, (4) $1,993, (5) $10,774; H. A. Wagner, Lebanon, Pa., (4) $1,374, (5) $12,053; Q. & C. Co., 90 West St., New York, (2) $11,200.

Engineering Supplies.—Panama.—Bids were received as follows on Sept. 11 by Maj. F. C. Boggs, Corps of Engrs., U. S. A., for furnishing engineering supplies, (a) 1,500,000 ft. square vitrified tile, (b) 210,000 lbs. saltpeter dynamite: (a) H. B. Camp Co., Fat Iron Bldg., New York, $89,250; Shawmut Clay Mfg. Co., 182 Broadway, New York, $85,350; American Sewer Pipe Co., Akron, Ohio, $87,750; William Wirt Clark Co., Baltimore, Md., $85,485. (b) Giant Powder Co., Kohl Bldg., San Francisco, Cal., $27,615; DuPont de Nemours Powder Co., 90 West St., New York, $28,865; Keystone Powder Co., Emporium, Pa., $28,560, alt., $29,610; Trojan Powder Co., 65 Pine St., New York, $26,250.

For other Proposal Advertisements see pages

49, 50, 52, 56

of Advertisements and Construction News, page 152

8,000,000 GALLON PUMPING ENGINE.

City of Sheboygan, Wisconsin.

Sealed bids will be received by the Board of Water Commissioners, Theo. Dieckmann, President, of the City of Sheboygan, Wisconsin, up to 3 o'clock P. M. on the 16th day of October, 1911, for the furnishing, delivering and erecting complete on foundations furnished by the City of Sheboygan, of one 8,000,000 gallon pumping engine in an addition to the present pumping station of the city of Sheboygan, in accordance with specifications on file at the office of the Board of Water Commissioners.

A certified National Bank check in the penal sum of 10% of bid will be required to accompany each bid.

The City reserves the right to accept or reject any or all bids.

CITY OF SHEBOYGAN, WIS.,
BOARD OF WATER COMMISSIONERS,
THEO. DIECKMANN, Pres.
Countersigned:
JOHN KUMMER, Comptroller.

IRRIGATION CANAL.

San Antonio, Texas.

Sealed proposals will be received by the Medina Irrigation Company, 520 East Houston St., San Antonio, Texas, until 3 P. M., October 20th, 1911, for the building of twelve or more contract sections of its west canal, located about 23 miles west of San Antonio and having an aggregate length of approximately 28 miles. Canals will have bottom widths of 20 ft. in level ground, 15 ft. in sidehill work, 10 ft. in concrete lined channels and will include approximately 1,400,000 cubic yards of classified excavation material, two reinforced concrete syphons, concrete culverts, flume approaches, and bridge crossings. Contract sections will be approximately of equal magnitude. Bidders will be required to qualify as to past performance and ability to furnish adequate plant. Each bid must be accompanied by certified check for five per cent. of the amount bid and by guaranty from responsible surety company that bidder, if successful, will execute satisfactory bond in sum of fifteen per cent. of amount of bid, guaranteeing to complete work before July 1, 1912. The right is reserved to reject any or all bids. Bidders are expected to go over the ground, examine testpits and inform themselves regarding all local conditions.

Further information, blank forms for proposals and detailed plans and specifications may be obtained by responsible parties from the Company at the above address and at its New York Office, 20th floor, 25 Broad St., New York City.

MEDINA IRRIGATION CO.

PIPE, VALVES, ETC.

Charlotte, N. C.

Sealed proposals will be received by the Board of Water Commissioners of the City of Charlotte, at the office of the Clerk until 3 p. m., October 17th, 1911, for the following:

Laying about 9 miles of 24 inch cast iron pipe.
Furnishing Valves.
Furnishing 2—300 Horsepower motors.
Furnishing 2—Centrifugal pumps. (5 million gallons capacity each.)
Furnishing 1—3,000,000 gallon steam pump.
Furnishing Transformers and Switchboard.
Furnishing 2 Boilers and setting same.

Bids for other work and materials will be advertised for later.

Plans and specifications will be on file at the office of the Clerk and at the Engineer's office in Charlotte, N. C.

Copies of specifications, form of proposal, etc., will be furnished on deposit of $5.00, which deposit will be refunded on return of same. Map and profile of pipe line will be furnished on payment of $5.00.

As an evidence of good faith, each bid must be accompanied by a certified check for not less than 10% of the amount of bid; but check is to be for $5,000.00 if bid is on laying pipe line.

The right is reserved to reject any or all bids.

BOARD OF WATER COMMISSIONERS,
A. H. WEARN, Clerk.
Engineer:
GILBERT C. WHITE.

CHANGE OF DATE.

CALUMET-SAG CHANNEL EXCAVATION.

THE SANITARY DISTRICT OF CHICAGO.

Sealed proposals, endorsed "Proposals for Excavation and Collateral Work on Contract Section Two of the Calumet-Sag Channel," will be received by the Clerk of the Sanitary District at the office of the District, on the 15th floor of the American Trust Building, Chicago, Illinois, until 12 m., Standard time, on October 5, 1911, and will be publicly opened by the Board of Trustees of said Sanitary District at a meeting to be held on that day, or the first meeting thereafter.

The work for which tenders are invited consists of the Excavation and Collateral Work on Contract Section Two of the Calumet-Sag Channel of the Sanitary District of Chicago, in the Townships of Palos and Lemont, County of Cook, State of Illinois.

The approximate quantities for the comparison of bids are:

(a) 221,000 cubic yards of Glacial Drift.
(b) 351,000 cubic yards of Rock Excavation.
(c) 313,000 square feet of Channeling.
(d) 3,200 cubic yards of Concrete Retaining Wall.
(e) 1,100 cubic yards of Dry Rubble Wall.

Specifications and plan may be obtained upon application at the office of the said Sanitary District.

All bids must be upon blank forms of proposal furnished by said Sanitary District and shall be made in accordance with and to conform to all the terms and conditions stated therein.

The Board of Trustees of said Sanitary District reserves the right to reject any and all bids.

THE SANITARY DISTRICT OF CHICAGO,
By THOMAS A. SMYTH,
President of Its Board of Trustees.
Attest:
I. J. BRYAN, Clerk.
Chicago, September 1, 1911.

U. S. ENGINEER OFFICE, Charleston, S. C., September 27, 1911.—Sealed proposals for dredging canal between Charleston and McClellanville, S. C., will be received here until noon, October 27, 1911, and then publicly opened. Information on application. G. P. HOWELL, Major, Engineers.

Situations Open
(Or Vacant)

WANTED—Superintendent to take charge of pattern shop, foundry and machine shop, or machine shop only, in plant employing about 250 men and manufacturing the highest class of large vertical gas engines. State past experience and salary demanded. None but men of highest proved ability will be considered. Address "R 12," Engineering News, New York. 13-2[illegible]

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